Impact of digital co-creation on brand equity with special reference to IT Industry AishwaryaKanchan Marketing Executive – Xpanxion UST Global

Abstract:

The evolution in Information technologies has brought about a change in our economies as well as in our societies because companies endeavor to adapt conditions prevailing in a marketplace. In this scenario, marketing professionals are exploring effective ways to build a strong brand. The research objective explores the impact of digital co-creation on brand equity dimensions through which companies can tailor their strategy to create a greater experience for their consumers in the digital world by exploring attributes regarding brand's perceived quality, interactions, customer involvement, CRM, brand loyalty, customer satisfaction, and brand association. While consumers could achieve a greater experience, transparency and value creation. A framework is proposed based on the approaches to co-creation and its influence on the dimensions of brand equity. From theoretical perspective, this study contributes to branding literature by exploring approaches to integrated marketing communication, brand image and strategies for value-creation. Additionally from marketing perspective, the drivers will guide managers to understand the desires of their consumers and customers to tailor their strategy according to the attributes that build equity for the brand on online platforms that will save marketing cost, enhance consumer loyalty, raise the return of investment, and providing circumstances for co-creation. Thus, it will provide information about consumer behavior and ways to build strong brands that leads to an ever-lasting consumer-brand relationship.

Keywords:

Social Media; Digital Marketing; Brand Equity; brand equity models; brand equity evaluation model, consumer approach; co-creation; value creation; co-creation; co-creation of value; brand experience; value chain; consumer engagement; customer involvement; perceived quality

1. Introduction:

A brand identifies the seller or manufacturer. It can be defined as "a name, term, sign, symbol, or design, or combination of them which is intended to identify the goods and services of one seller or group of sellers and to differentiated them from those of competitors" (Kotler 1991; p. 442). Brands vary in the amount of power and value they have in the marketplace. Brands are complex entities that reside in consumers' minds. Today, consumers are not passive recipients of marketing activity rather they are a part of the branding activity. With the advent of new media and ubiquitous connectivity a democratic force of participation fostering new social interactions beyond institutional boundaries has been unleashed, breeding new ways of collective engagement and value co-creation. Digital co-creation has emerged as a new practice that is changing how cultural content gets made, used, and exchanged (Katz, 2010). The implication for organizations is that co-creation ought to be viewed as a process that gives an opportunity for on-going interaction, where the organization is willing to share its world with external stakeholders and can generate in return the insight that can be derived from their engagement with an objective to generate, refine or create. Companies engage in co-creation projects because they want to them to foster the discovery of customer interest and value, which they can turn into innovation and competitive advantage. Also, they involve into improving brand's equity as the relationship between a brand and its consumers is becoming more complex and gives a critical understanding of the strengths and weaknesses of the brand and defines what drives brand value, revenue and profitability and consequently what components of the brand could be leveraged. Thus, help tailoring the brand strategy.

Armed with new connective tools, consumers want to interact and co-create value"

(Prahalad and Ramaswamy 2004, p.5)

Co-creation is a joint, collaborative, concurrent, peer-like process of producing new value, both materially and symbolically. The massive use of the internet and the development of interactive platforms, online communities and toolkits offer the potential to co-create with a large number of customers or consumers. Companies, such as Apple, Nike, Nestlé, Lego, Starbucks, Mahindra and Microsoft have developed such strategies successfully.

With Apple generating over \$1 billion for its App-Store partner-developers in two years, and overtake Microsoft in market value or Unilever revitalizing growth by redesigning Sunsilk Product line. Also, Starbucks launched its online platform MyStarbucksIdea.com to tap into ideas from customers and turbocharged a turnaround. Nike achieved remarkable success with its Nike+, which enables a community of over a million runners to interact with one another and the company's co-creation initiative increased its market share by 10 percent in the first year. There is an ongoing debate in the literature about the differences between co-creation and co-production and the need to distinguish between them (Gro"nroos and Voima, 2013; Cova et al., 2013). Hundreds of published papers acknowledge a different and more constructive role for the customer in the market value creation process. Co-creation is an important paradigm in which a common body of theoretical statements has been developed and applied to a diverse set of empirical contexts. Although, papers to discuss the role of co-creation in IT industry is not been found. Also, there have been no researchers found that empirically determines the impact of co-creation on Brand Equity.

Thus, the aim of this study is to empirically determine the impact of co-creation on Brand Equity with special reference to IT Industry. The reason to restrict the research to IT Industry is to fill the research gap found in subject concerned.

2. Objectives:

- To identify the different theoretical perspectives and research streams that characterize and define the co-creation literature with reference to IT Industry
- To understand the interaction between Co-creation and Brand Equity in IT industry

• To empirically formulate a framework that determines the interrelationship between digital co-creation; as a process and brand equity.

3. Literature review:

Co-creation is a concept in which companies and customers generate value through interaction (Vargo and Lusch, 2008). Over the last two decades, co-creation as a concept has been reviewed, critiqued, researched, analyzed on two levels– company-centered vs. customer experience-centered; Magala (2009) called it to be "postmodern pattern of sense making" where there is open-ended flow of social communication, built around transparent collaborative negotiation of meanings that leads to a networked, evolving social world. Most cited definition of co-creation was provided by Prahalad and Ramaswamy (2000) as - "a form of market or business strategy that

Most cited definition of co-creation was provided by Prahalad and Ramaswamy (2000) as - "a form of market or business strategy that emphasizes the generation and ongoing realization of mutual firm-customer value. It views markets as forums for firms and active customers to share combine and renew each other's resources and capabilities to create value through new forms of interaction, service and learning mechanisms". As Peter Drucker reputedly said, "the best way to anticipate the future is to create it." Even better- "Cocreate it." Unpredictable transformations have introduced complexity in the business environment.

Today, Business and society are moving towards an individual- and experience-based view of co-creative engagement where stakeholder in their role as consumers, employees, or any other race to implement co-creation value with their approaches to competitive advantage. Thorsten Roser,

Robert De Fillippi and Alain Samson suggested a long term business philosophy in relation to brand management and value creation. They also discussed approaches to co-creation and its applications-

- Interactions: Cost effective, frequent interactions with stakeholders
- Community: building large, diverse community of people inside and outside the firm that enhances engagement
- **Platform:** a physical or virtual discussion platform to generate new ideas, design physical objects, processes or places. Also, these platforms help develop analytically based insight.
- Experience: a unique, individualized experience for stakeholders
- **Economic value:** create economic value as a network

To help promote stakeholder participation these five processes are employed to initiatives in a variety of ways and to various degrees. Innovation projects were started as experiments by inviting employees from functions other than just R&D to share their ideas. This was a revolutionary step in the industry. Other firms started their co-creation experiments by making common cause with customers through online platforms.

Digital co-creation has emerged as a new practice that is changing how cultural content gets made, used, and exchanged (Katz, 2010). The implication for organizations is that co-creation ought to be viewed as a process of outbound and inbound interactions with an objective to engage with consumers and come up with an insight to refine and create ideas etc. Companies engage in co-creation projects because they want them to foster the discovery of customer interest and value, which they can turn into innovation and competitive advantage creating unique customer experience by engaging with them.

According to the literature there are three main *theoretical perspectives to Co-Creation*:

- 1. Innovation and technology management- the interaction between customers and companies, which technological platforms often mediate, leads to innovation, customer participation, and better customer services
- Marketing and consumer research- if consumers are adequately considered and their expectations are met in terms of their engagement, involvement, and empowerment. These perspectives seldom problematize co-creation, but are taken for granted and considered an important element that helps companies produce better results in terms of innovation and customer satisfaction
- 3. Service science SDL Logic

These perspectives have been discussed on themes including service innovation, co-creating value through customer experience and competence, online and digital customer involvement, the development of service science, SDL, individual consumers and communities collaborating with companies with respect to products & services.

Backhaus et al in 2011 said that "strong brands can help customers improve information collection and processing efficiency, and reduce their perceived purchase risks."

According to Francis J. Gouillart, (2014) in the process of product or service innovation, leading corporations have developed five archetypes of co-creation through an experiment with stakeholders and various approaches to co-creation.

- 1. Community building or social marketing- creating community of interest using content bucketing
- 2. **Design thinking** explore consumer journey, understanding mindset of consumer and their behavior, open design or user-led innovation.
- 3. Co-creative transformation a change derivative
- 4. Crowd-sourcing soliciting contributions from the masses, open source
- 5. **Open innovation** a paradigm for industrial innovation management, intertwining inbound and outbound ideas to accelerate their growth, R & D or product development

The concept of "value-in-use" given by Monika Skaržauskaitė (2013) suggested both customer and organization are equally important in the process of co-creation creating value by resource integration and deep interactions between consumer and company. The analysis lead to suggestion that value co-creation includes:

- 1. Customer involvement & engagement
- 2. Consolidation or assimilation of resources
- 3. Cooperation; to interact
- 4. A spectrum of potential form of collaboration

Gaurav Bhalla(2014) highlighted the process of co-creation that enables an organization to influence the customer centric value creating,

dialogical process through interactions as:

- 1. Identifying business opportunities for future strategic decision making
- 2. Transforming an organization's culture
- 3. Customer solutions as a business proposition than technologies

The organization open its world, engaging customers and other stakeholders to be a part of the value chain, which allows it to expand into new and unchartered territory pushing boundaries which brings forth effective insights that are deeply connected.

Co-creative communities offer various benefits:

- Giving velocity to market
- Providing better insights and communication
- Helps designing focused to customer experience and journey
- Focus on value creation, instead of providing technological solutions
- Positive word-of-mouth recommendation
- Increased adaptability
- Lower risk of market failure

Thus, Co-creation is the process of co-discovery through interaction (Shotter, 2005) that generates new ways of seeing the world and leads to the opportunity for self-development.

Co- creation can also be defined as a construct working in a context with an addressable community being one of the stakeholders forming an ecosystem to achieve a common objective thus becoming a co-creative organization is about changing the very nature of engagement and relationship making dimensions like "Whom to involve" very important and the reasons they are being part of the process may also be an area of concern. Also, Companies over year have been giving incentives to consumers' like-

- A sense of belonging The act of joining forces to co-create is incentive enough to participate. E.g. HOG (Harley Owners Group) motorcycle riders wear their badge as a group identity with honor
- Monetary rewards –rewards as coupons and sweepstakes prizes
- Help develop a Self-image Hallmark's "Circles of Conversation"
- Consumption First users; Nokia beta labs
- **Need for a solution** The need for a solution is a potent motivator for collaborating. They are looking for solutions before actual markets come into existence.
- Supporting causes

The DART model facilitates a company to engage with consumers as co-creators more effectively. An overview of existing models has revealed a theoretical and an empirical research concerns in the co-creation process. Brand advantages are understood as brand value for customer. Thus brand equity enhances the way a customer perceives the brand, leading to consumer loyalty and protects from competitive threats.

Over years of research the construct of brand value has been discussed with two views. From the customer's point of view, Leek and Christodoulides in 2011 stated brand value as the functional and emotional value delivered by brand that leads to brand acknowledgement, trust and loyalty also, suppliers suggest brand value to be the premium the firm can earn from a strong brand.

According to Keller and Lehmann, 2006, brand value chain model the value based on customers is an antecedent of brand value of the company. They urged brand managers to establish a relationship of reciprocating interactions that determines a brand value on both rational and emotional levels. Brodieet al (2011a, 2011b) emphasized on constructs like customer participation and involvement are roots to brand engagement. They also suggested that, 87% of a brands value and 79% a firm's performance is explained by brand value co-creation.



Hollebeek (2011b), proposed brand experience, loyalty and satisfaction as potential consequences of customer-brand engagement which is influenced by quality relationship to trust, commitment that eventually adds up to loyalty.

Co-creation is particularized as "the process by which mutual value is expanded together" (Ramaswamy 2011, p. 195). Engaging in cocreation activities strengthens the brand experience of the consumer that increases the level of association. Thus, Co- Creation; the futuristic approach to branding has certain influence on Brand Equity that might help create successful campaigns and improve brand value. Successful branding means lower uncertainty in purchasing which in turn improves a Brand's position in the market, creating a strong brand.

With this inter-relationship between co-creation and a brand's equity, it is important to translate the concept, the construct of **Brand equity** and its models of measurement.

"Brand Equity is the added value endowed by the brand to the Product"

Farquhar, 1989.

The idea of using a name or a symbol that enhances a product's value has been used by marketers for years. In the globalization and information age, brand equity is that crucial point that helps differentiate and render an additional value as a competitive weapon that helps to cope with price wars. Brand equity has been examined majorly from two different perspectives –

- 1. **Financial perspective-** This train of thought views brand equity in terms of incremental discounted future cash flows that would result from branded product revenue. When the consumer buys a Brand, he/she buys future value, which is why the Brand can charge premium value. This was an example when compared with the revenue that would occur if the same product did not have the brand status.
- 2. Customer based perspective- the concept of brand equity in the context of marketing decision-making

My readings into the financial perspective of Brand equity finds that the commonly used financial measures, mostly focuses on **stock prices** or **brand replacement**. Various techniques to measure brand equity from the financial perspective include the use of movements in stock prices to capture the dynamic nature of brand equity based on the theory that the stock market reflects future prospects for brands by adjusting the price of firms. (Simon & Sullivan, 1993). In the stock market, to an acquiring firm, the potential value of a listed Brand is an indicator of brand equity. In reality, while launching a new product, the financial measure is based on brand replacement cost, or the requirements for funds to establish a new brand, together with the probability of success.

One of the most publicized financial methods in use by *Financial World (FT)* in its annual listing of world-wide brand valuation, calculates net brand-related profits. They then assign a multiple based on brand strength, which is defined as a combination of leadership, stability, trading environment, internationality, ongoing direction, communication support, and legal protection. So while financial markets do not ignore marketing factors and stock prices reflect marketing decisions, there are other estimation techniques that can extract the value of brand equity from the value of the firm's other assets, such as:

1. The **macro-economic approach:** The assigning of an objective value to a company's brands and relates this value to the determinants of brand equity.

2. The **micro-economic approach:** Which isolates changes in brand equity at the individual brand level by measuring the response of brand equity to major marketing decisions.

Initially, brand equity was conceptualized as consisting of consumers' brand associations that include brand awareness, knowledge and mental image (Keller, 1991, 1993). Another school of thought suggested brand equity consists of two components – brand strength and brand value (Srivastava and Shocker, 1991). Some researchers view brand equity as perceived brand quality of both the brand's tangible and intangible components (Kamakura and Russell, 1991).

In the marketing literature, operationalizing brand equity generally falls into two groups:

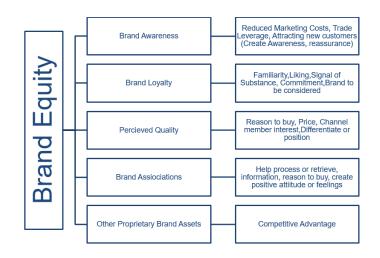
- 1. **Involving consumer perceptions** such as awareness, brand associations, or perceived quality
- 2. Involving consumer behavior such as brand loyalty and the focus on paying a price differential

There are various **Brand equity models** that have been discussed under the two schools of thoughts as discussed above. **Aaker (1991)** has given the most inclusive definition of brand equity:

"A set of brand assets and liabilities linked to a brand, its name and symbol that adds to or detracts from the value provided by a product or service to a firm and/or to the firm's customers."

Aaker (1991) incorporated both perceptual and behavioral dimensions with his Brand equity model. Wherein behavioral measures of purchase describe the existence of equity, and do not reveal what is in the hearts and minds of consumers that actually drive equity. He suggested a model using a brand-earnings multiplier that is based on a weighted average of the brand on five key components of brand equity:

- 1. awareness;
- 2. associations;
- 3. perceived quality;
- 4. loyalty; and
- 5. Other proprietary assets such as patents and trademarks



Kamakura and Russell (1993) with his model suggested three components of brand equity

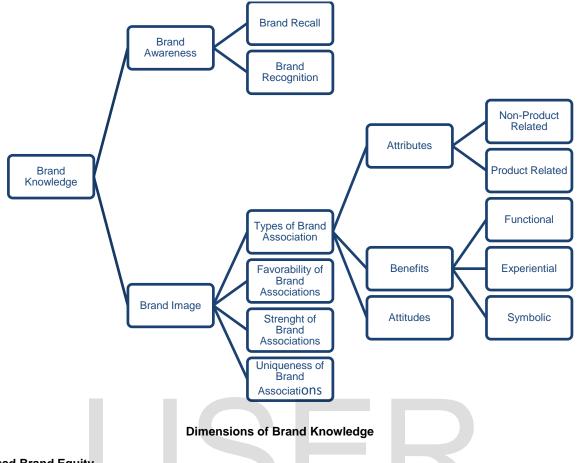
- 1. perceived value;
- 2. brand dominance; and
- 3. Intangible value

As Biel (1992) observed

"Consumer behavior is, at root, driven by perceptions of a brand. While behavioral measures of purchase describe the existence of equity, they fail to reveal what is in the hearts and minds of consumers that are actually driving equity. "

Thus, the focus of equity study relied on both a perceptual look and behavioral-based examination of brand equity. **Thiripurasundari**, **Dr. P. Natarajan (2011)**, gave a framework with five underlying factors - brand knowledge, brand application, brand relationship, brand preference and brand loyalty which make up measures of Brand Equity. The researchers recommend that these dimensions should be the integral components in designing brand equity studies.

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Customer-Based Brand Equity

Customer-based brand equity is defined as the differential effect of brand knowledge on consumer response to the marketing of the brand. Keller suggested CBBE to include three important constructs-

- 1. **Differential effect** determined by comparing consumer response to the marketing of the brand and a fictitiously named or unnamed version of the product or service.
- 2. Brand knowledge Brand knowledge is defined in terms of brand awareness and brand image and is conceptualized according to the characteristics and relationships of brand associations
- 3. **Consumer response to marketing** consumer perceptions, preferences, and behavior arising from marketing mix activity (e.g., brand choice, comprehension of copy points from an ad, reactions to a coupon promotion, or evaluations of a proposed brand extension)

Thus, a brand is said to have positive or negative customer-based brand equity if consumers react more or less favorably to the product, price, promotion, or distribution of the brand than they do to the same marketing mix element when it is attributed to a fictitiously named or unnamed version of the product or service. Favorable consumer response and positive customer-based brand equity, can lead to enhanced revenue, lower costs, and greater profits.

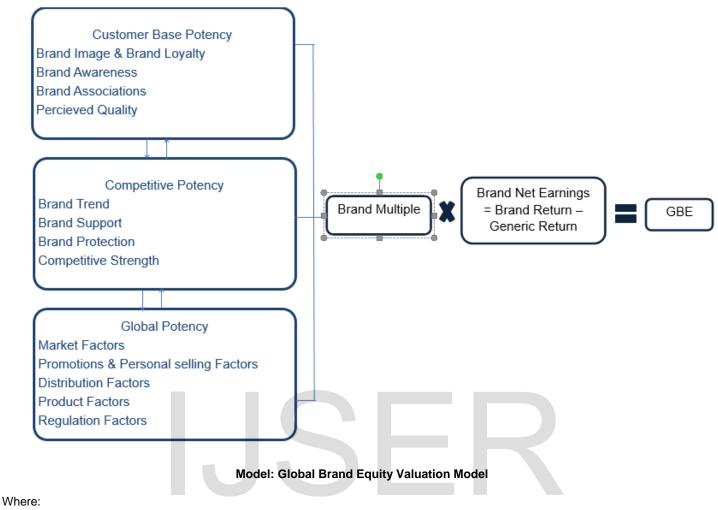
Global Brand Equity Model

Global brand equity (GBE) is the product of brand's net earnings and brand's multiple; it is very similar to the Interbrand model. The brand's net earnings are - the differential earnings of a branded and an unbranded (generic) product. The advantage of the model is that it quantifies all the components and applies generally accepted financial techniques. The brand multiple is determined based on brand strength which is derived from an in-depth assessment.

The global brand equity model can be expressed symbolically as: - n m n m n m

GBE = {M [[(W CBPF) + (W CPF) + (W GPF)]/30]} BNE

i=1 j=1 ijij i=1 j=1 ijij i=1j=1 ijij



GBE = global brand equity

M = maximum possible multiple in the industry

Wij = the importance of factor J in country I

CBPF ij = the value of customer base potency factor j in country I

CPF ij = the value of competitor potency factor j in country I

GPF ij = the value of global potency factor j in country I

BNE = brand net earning

Notes: The brand strength percentage will not be directly multiplied by M. It will be determined through application of S-curve

The Brand Equity Ten

The Brand Equity Ten includes sets of measures grouped into five categories. The first four categories represent customer perceptions of the brand along the four dimensions of brand equity—loyalty, associations, perceived quality, and awareness. The fifth includes two sets of market behavior measures that represent information obtained from market based information rather than directly from customers. The model includes measures that incorporate tangible and intangible constructs like price premium the consumer is ready to pay versus the satisfaction. It discusses metrics that accounts for consumer perception & consumer behavior.

There has been an interaction amongst various marketing criteria driven brand equity conceptual models which can be explained through figure below.

TABLLE 1. The Brand Equity Ten

Loyalty Measures

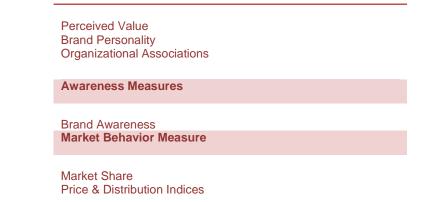
Price Premium Satisfaction/Loyalty

Perceived Quality/ Leadership Measures

Perceived Quality Leadership

Associations/ Differentiation Measures

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This interaction gives a framework which can help determine the interaction between brand equity and co-creation quantitatively. From the discussed literature it is clear that co-creation impacts brand performance, identity etc. Thus, co-creation affects Brand equity can very well be established theoretically which can be empirically validated through improvement in Brand value of a brand with financial methods using market capitalization and sales of a company as well as with a conjoint analysis of Survey collected data for brand equity components.

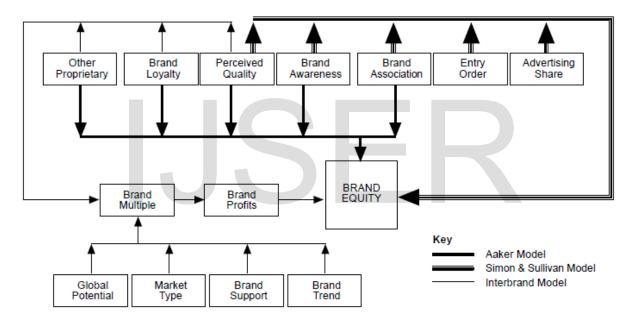


Figure 1. Interrelationship among leading conceptual models of brand equity

The technological advancements facilitate connectedness, empowering consumers that foster collaborations and value co-creation which leads to consumer brand engagement. Though there are various studies on consumer brand engagement, there is still a lack of research that empirically analyses how it helps persuading consumers increasing brand equity. Today, consumers are active participants in value creation. This interaction has been investigated from the various perspectives like S-D logic. According to the Service Dominant logic a company not only needs to analyze, track a market or consumer's needs, but have to provide additional benefits to consumers as well. Thus, stressing the importance of motivation factors, both social and functional for consumer engagement. Fuller in 2006 proposed a few personal characteristics that motivate consumers, such as curiosity, freedom to express ideas & interest in innovation.

Porter's et al. (2011) study suggested "motivators, as information, relationship building, social identity/self-expression, helping others, enjoyment, belongingness, status/influence, which influence consumer engagement in virtual brand community "

Analysis of existing studies on the approaches to digital co-creation, constructs of brand equity, relationship between customer engagement and value creation, co-creation and consumer brand engagement, influence of consumer brand engagement, brand experience on brand equity has highlighted a research gap to empirically study the impact of digital co-creation on brand equity.

In this research the main focus will be devoted to quantitatively determine the impact of digital co-creation on Brand equity and the interrelationship amongst the variables of these major constructs using common scientific research methods, validating proposed framework and MANOVA, generalizing analysis for IT industry.

4. Conceptual framework:

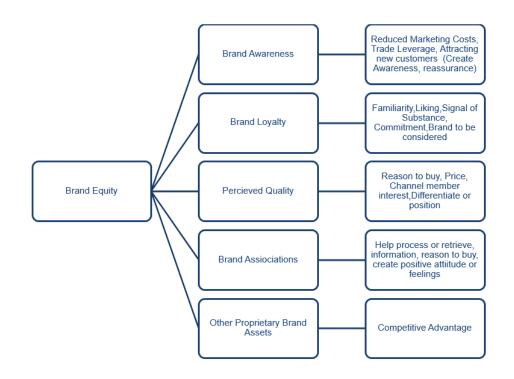
Based on theoretical analysis of existing studies on co-creation and consumer brand engagement, brand equity and consumer brand engagement the conceptual model of consumer engagement in brand equity creation could be developed, using various models like brand value chain model proposed by Keller and Leehman, 2006, Aekar brand equity model 1991, Causal model discussed by Jing Zhang, RizwanShabbir, ChatchaiPitsaphol&Waseem Hassan, 2015 and a conceptual framework proposed by Helm & Jones in 2010 that offers a holistic perspective for creating brand equity and its governance.Jing Zhang, RizwanShabbir, ChatchaiPitsaphol&Waseem Hassan, 2015 concluded that "consumers could actively participate in brand value creation through engagement into the process of new product and brand marketing communications creation, and brand buying behavior"

Discussing the Keller and Leehman, HerbjrnNysveen&PerEgil Pedersen suggested the effects of co-creation to be partly direct and partly indirect. Also, co-creation is directly influenced by satisfaction and loyalty which in turn leads to strong brand experiences. Chinomona 2013, suggested brand satisfaction is associated with higher levels of brand trust. He also said that it is positively influences Brand Loyalty.

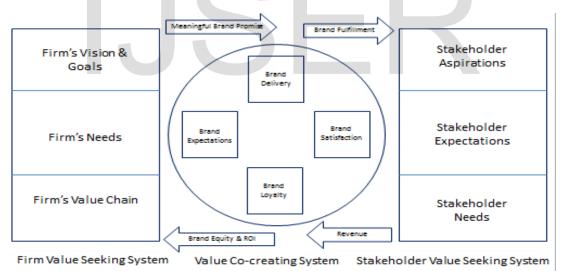


Critical analysis of scientific literature suggests that brand equity increases brand preference, leads to consumer loyalty and protects from competitive threats. Aekar in 1991 incorporated both behavioral and perceptual dimensions with his Brand Equity model. He suggested a model using a brand earnings multiplier that is based on a weighted average on five key components:

- 1. Brand Awareness
- 2. Brand Associations
- 3. Perceived Quality
- 4. Brand Loyalty
- 5. Other proprietary assets like patents and trademarks



Helm and Jones explained the importance of brand equity elements like loyalty and satisfaction in the value creation cycle in context of a firm and stakeholder interactions.



Roser, Robert De Fillippi and Alain Samson with their long term philosophy for brand management and co-creation suggested approaches like interactions, platform, community formation, consumer experience and the economic value. A key research study by IgorsSkute, discussed the causal model that determines a relationship between brand engagement, brand equity and co-creation potential. Rita Kuvykaitea*, ZanetaPiligrimiene model 2015, reflects the inter-relations between levels of consumer engagement (cognitive, affective and behavioural)and the brand equity dimensions (familiarity, perceived quality, associations and brand loyalty) after engagement. It also takes into consideration the personal consumer characteristics like awareness that are important to identify consumers who should be made part of the process of brand equity creation. Relationship between brand equity and brand engagement measures was identified by Boyle (2007) as the five stages of consumer engagement that creates brand equity:

- 1. new product development with perceived product attributes
- 2. Increasing brand awareness through marketing & communication activities
- 3. Increase in pre-consumption brand association by interpreting various marketing and communication activities.
- 4. Formation of post-consumption associations after consumption of the product

5. Improving perception of consumers leading to brand loyalty and increase in repurchase

Therefore, the research paper is intended to address the following research questions:

RQ1: What are the factors influencing brand equity and co-creation in the Digital Environment? **RQ2**: What is the impact of interaction on Brand equity?

RQ3: What is the impact of Community building on brand equity?

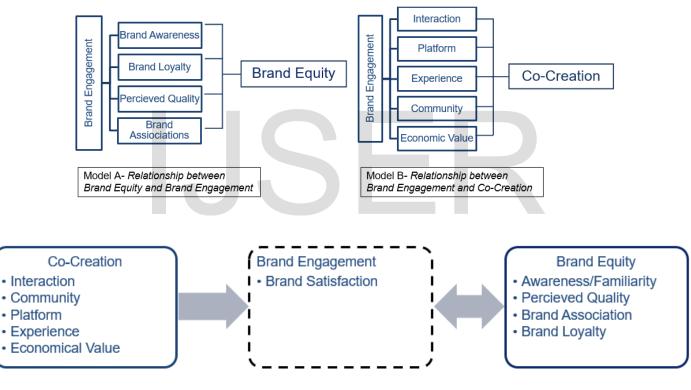
RQ4: What is the impact of presence of a digital platform of the brand on its equity?

RQ5: What is the impact of experience on brand equity?

RQ6: What is the impact of economic benefits provided by a brand on brand equity?

5. Model and hypotheses:

Research findings and theoretical insights can be summarized in the following proposed model and subsequent hypotheses. The Model A explores the relationship between brand equity dimensions like familiarity, brand loyalty, perceived quality, brand associations and brand engagement, while Model B explores the impact of brand engagement on co-creation and its variables. Model C incorporates Model A and Model B to explain the impact of co-creation on brand equity.



Model C- Causal model explaining relatonship between Brand Equity and Co-creation

H1a. Interaction has a positive impact on Awareness

H1b. Interaction has a positive impact on Perceived Quality

 $\ensuremath{\text{H1c}}\xspace$ A positive interaction improves Brand Association

H1d. A positive interaction leads to strong brand loyalty

H2a Community Building has a positive impact on Awareness
H2b Community Building has a positive impact on Perceived Quality
H2c.A Community increases Brand Association
H2d. A community helps build brand loyalty

H3a. A platform helps build Brand Awareness

 $\textbf{H3b.} \ \textbf{A platform has a positive impact on perceived quality}$

H3c. A platform builds Brand Association

H3d. A platform helps build Brand loyalty

- H4a. A pleasant experience has a positive impact on Brand Awareness
- $\ensuremath{\text{H4b.}}\xspace$ A positive experience has a positive impact on perceived quality
- H4c. A positive experience builds Brand Association

H4d. A pleasant experience helps build Brand loyalty

- H5a. The economic value helps build Brand Awareness
- H5b. An economic benefit has a positive impact on perceived quality
- H5c. An economic benefit builds Brand Association

H5d. An economic exchange helps build Brand loyalty

6. Process:

The models are formulated basis the content analysis of previous researches and are validated using Cronbach alpha methodology, to check its reliability and KMO and Bartley's test of spherecity is done for the sample adequacy test. A survey of 130 people from the sample is been analyzed using multivariate analysis of variance and covariance.

Based on the research it is expected to empirically determine the impact of co-creation and its dimensions on brand equity using the proposed conceptual framework. To test the models and proposed hypotheses, linear regression analysis to predict and understand the relationship of one variable to another is used. Also, SPSS 20 software package is used to carry out statistical programs like multivariate analysis of variance and covariance or structural equation modeling (AMOS or STRATA). MANOVA is carried out to predict the interdependence of the constructs is an applicable method of analysis. MANOVA analysis is suitable to predict the tests for the difference in two or more vectors of means and since the hypotheses in this research study are focused on investigating the impact of one construct on another (i.e. Interaction and its impact on brand awareness hence brand equity or interaction and its impact on perceived quality). MANOVA with Levenes test for error differentiation followed by an exploration of plots of normality and descriptive analysis of the observed power is a validating and apt method for the research.

7. Sample:

The panel of 130 respondents is designed to be representative for the online population of age group 15-25 years, SEC A1, A2, and B1 in Pune. Sampling is controlled by the social media usage levels to ensure that the sample is exposed to branding activities (community and social media interactions) by various brands, education level and Household income.

8. Data measurements:

The key focus of this research paper is to investigate how digital co-creation (community building and social media interactions) improves brand's engagement (Brand Satisfaction) and affects Brand's equity (perceived quality, brand loyalty, associations and familiarity) in IT industry.

Independent variable

The independent construct studied in this study is Co-creation with its dimensions like interaction, experience, community, platform and Economical tradeoffs (for working definitions see table 1) and this is be measured by a survey of 150 people as well as validated by content analysis of previous years research.

The Mediating variable

The Mediating variable is Brand Engagement and it is measured by using content analysis technique to conduct a descriptive analysis of the brand engagement and its various types .Thus, a new typology model was designed, based on the previous research studies. (For working definitions see table 1)

The Dependent variable

The Dependent variable studied in this research is Brand Equity (for working definitions see table 1) which is measured by a survey of 130 people, belonging to Gen Y and Gen Z category as according to research by Forrester and IAMAI maximum % of adoption of social media /chat platforms come from Gen Y thus, Population is the Gen Y community.

Table : Data measurement table & definitions

Co-Creation (independent variable) Interaction Community Platform Experience Economical Tradeoff The number of posts in a day by the brand The number of posts in a day by the brand The number of community building activities brand is involved in The number of platforms a brand is using to connect to consumers The positive interaction the consumer has on various digital platforms	VARIABLES	METRICS	DEFINITIONS
The economic benefit offered by brands	Co-Creation (independent	Interaction Community Platform Experience	The number of posts in a day by the brand The number of community building activities brand is involved in The number of platforms a brand is using to connect to consumers

Brand Engagement	Brand Satisfaction	Brand satisfaction is associated with higher levels of brand and consumer intension to repurchase
		A consumer is aware about the brand and its communities or social network pages
	Familiarity	The consumers opinion of a brand's capability to fulfill his/her expectations
Brand Equity	Perceived Quality Brand Loyalty Association	The tendency of a consumer to repurchase a brand
	Association	A feeling to stay put with the brand, share about it to others.

9. Questionnaire items:

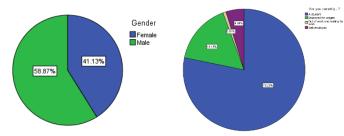
VARIABLES	METRICS	ITEMS
Co-Creation (independent variable)	Interaction Community Platform Experience Economical Tradeoff	 I often express my personal needs on network platforms I often give feedback for the brand to improve I participate in conversations on various platforms I often find solutions with the brand I am actively involved when a brand develops solutions for me Brands encourages customers to create solutions I feel like I am a part of a community I feel as I am part of a brand family As a customer I never feel being left alone I feel motivated to be part of a brand if it offers me discounts, coupons etc. I feel brands offer allot of benefits online I find brand platforms to be informative I follow brands on social media platforms I find it engaging, to have an conversation with a brand Social media platforms is the best way to connect to brands
Brand Engagement	Brand Satisfaction	As a customer I am rarely passive Brands social media platforms make a strong impression on me Being involved in various brand activities on brand network platforms gives me an interesting sensory experience. Brands active on social platforms and communities appeal strongly to my senses. Brand communities induces my feelings I have strong emotions for brands active on digital platforms

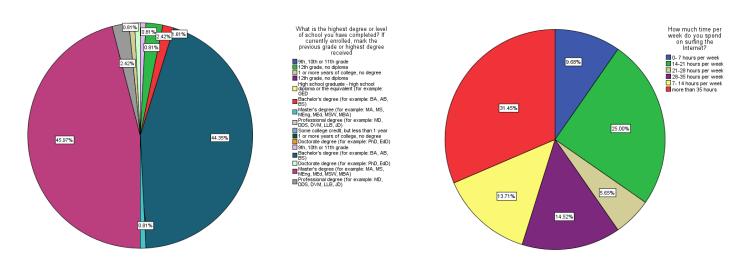
		Brands often strongly engages me emotionally
		I engage in a lot of thinking as a customer of the brand
		Brands that ask for my opinions often stimulates my thinking
		Overall I'm satisfied
		Being a customer has been a good choice for me
		Brand has lived up to my expectations
		I am part of online communities of brand like apple, Nike etc.
		I follow brand I use on social media
	Brand network platforms provide with new information	
	Brand network platforms also equip me with some benefits like coupons etc.	
		Brand network platforms keep me updated
		I respond to requests by brands on digital platforms
Brand Equity	Familiarity Perceived Quality	I find the brand to be good if it responses back to me
Brand Loyalty Association	I trust brands who have online discussion forums	
	Association	I strongly associate with a brand that asks for my opinions
	I share information about brand's that talk to me on my social pages	
	I intend to stay loyal to the brand that actively on digital platforms	
		I intend to recommend the brand that has online communities and forums to other people
		I intend to stay on as a customer if a brand responses to my requests.

Empirical Study: 10.

Methodology To verify the hypothesis proposed, over 100 millennial (130) were personally interviewed and were made to fill questionnaires.

Composition of the sample





They had to be regular users of social media for being in touch with friends and interact online with people, brands etc. The interviews were carried out between December 2015 and January 2016 by researcher herself. The data collection finished with 130 respondents out of which 5 were discarded due to missing and inappropriate data. The SPSS 20 statistical programs were used for the data analysis.

11. Data analysis

The study to be done is an empirical study of the impact of co-creation and its various constructs on brand equity in the minds of the customer. The relationship between the dependent and independent variables have been inbuilt within the questionnaire and to verify the model Factor analysis for data reduction and to find underlying relationship is carried out. Also, Co-relation analysis & linear regression has been carried out to determine the validity of the proposed model.

The Cronbach alpha was determined first to understand the reliability of the questionnaire and the data.

Reliability Statistics

	Cronbach's Alpha Based on Standardized Items	N of Items	\mathbf{O}	
.945	.945	39		

The Cronbach's Alpha value is .945 which suggests the data to be highly reliable and co-related to each other.

Before evaluating the cross – relationship (co-relation) amongst various factors, we analyze the measurement model. Following the theoretical guidelines suggested by Hair *et al.*in 1999, we carry out a factorial analysis using co-relations and linear regressions. Factor Analysis is a multivariate statistical technique which can be used for three main reasons:

- 1. Reduce number of variables
- 2. Establish relationship between measured variables and various discussed constructs
- 3. Validate construct

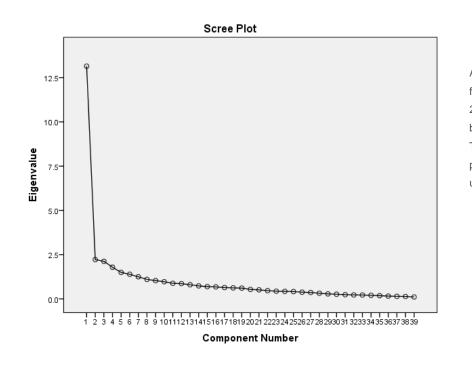
KMO & Bartlett's Test of Sphericity is a measure of sampling adequacy helps check the case to variable ratio for the analysis being conducted. In most academic and business studies, KMO & Bartlett's test play an important role for accepting the sample adequacy. While the world-over accepted index is over 0.6.According to the SPSS statistical test of Factor analysis suggests KMO value to be .870. Thus, the sample has an acceptable level of adequacy.

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.870
	Approx. Chi-Square	2533.211
Bartlett's Test of Sphericity	df	741
	Sig.	.000

Communalities		
	Initial	Extraction
I often express my personal needs on network platforms	1.000	.677
I often give feedback for the brand to improve	1.000	.697
I participate in conversations on various platforms	1.000	.680
I often find solutions with the brand	1.000	.671
I am actively involved when a brand develops solutions for me	1.000	.597
Brands encourages customers to create solutions	1.000	.744
I feel like I am a part of a community	1.000	.586
I feel as I am part of a brand family	1.000	.682
I feel motivated to be part of a brand if it offers me discounts, coupons etc.	1.000	.620
I feel brands offer allot of benefits online	1.000	.760
I find brand platforms to be informative	1.000	.704
I follow brands on social media platforms	1.000	.598
I find it engaging, to have an conversation with a brand	1.000	.600
Social media platforms is the best way to connect to brands	1.000	.648
As a customer I am rarely passive	1.000	.582
Brands social media platforms make a strong impression on me	1.000	.582
Being involved in various brand activities on brand network platforms gives me		
an interesting sensory experience	1.000	.571
Brands active on social platforms and communities appeal strongly to my senses.	1.000	.616
Brand communities induces my feelings	1.000	.657
Brands often strongly engages me emotionally	1.000	.636
Brands often strongly engages me emotionally Brands that ask for my opinions often stimulates my thinking	1.000	.692
Overall I'm satisfied	1.000	.692
Being a customer has been a good choice for me	1.000	.691
I engage in a lot of thinking as a customer of the brand	1.000	.544
Brand has lived up to my expectations	1.000	.602 .564
I am part of online communities of brand like apple, Nike etc.	1.000	.564
I am part of online communities of brand like apple, Nike etc.	1.000	.646
Brand network platforms provide with new information	1.000	.613 .660
	1.000	.568
Brand network platforms also equip me with some benefits like coupons etc.	1.000	.568
Brand network platforms keep me updated		
I respond to requests by brands on digital platforms	<u> </u>	.641 .708
I find the brand to be good if it responses back to me		
I trust brands who have online discussion forums	1.000	.687
I strongly associate with a brand that asks for my opinions	1.000	.751
I share information about brand's that talk to me on my social pages	1.000	.721
I intend to stay loyal to the brand that actively on digital platforms	1.000	.677
other people	1.000	.702
I intend to stay on as a customer if a brand responses to my requests	1.000	.735
I intend to recommend the brand that has online communities and forums to other people	1.000	
	Experience Awareness	
	Experience	

Extraction Method: Principal Component Analysis



A factor analysis was conducted on 39 different factors was carried out. This scree plot shows that 21 of those factors explain most of the variability because the line starts to straighten after factor 21. The remaining factors explain a very small proportion of the variability and are likely unimportant

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Rotated Component Matrix									
	1	2	3	1	mponent	6	7	o	0
I often express my personal needs on							,		9
network platforms I often give feedback for the brand to	.139	.031	.110	.791	.116	056	034	016	.033
improve	.124	.382	.175	.565	103	078	.068	.348	.209
I participate in conversations on various platforms	060	.212	.377	.584	.176	.187	178	.013	.227
l often find solutions with the brand	.187	.118	.075	.685	.002	.163	.303	.167	.012
I am actively involved when a brand develops solutions for me	.241	.186	.149	.478	024	.455	.138	.112	120
Brands encourages customers to create solutions	.196	.229	.066	.031	.219	.764	.031	005	.120
Brands encourages customers to create solutions	.121	.005	.177	.054	.108	.817	.000	.259	.091
I feel like I am a part of a community	.442	.371	.133	.088	.094	.404	.083	.193	105
I feel as I am part of a brand family	.500	.425	.210	.209	.050	.401	013	.012	.014
I feel motivated to be part of a brand if it offers me discounts, coupons etc.	.251	.296	095	.128	.174	.248	.200	.206	.519
I feel brands offer allot of benefits online	118	.447	.051	.076	.183	.188	.183	.657	.052
I find brand platforms to be informative	.326 .291	041 .016	.143 .316	003	.316	.143 .171	016	.654	.165 .111
I follow brands on social media platforms I find it engaging, to have an conversation				.127	.437		131	.384	
with a brand Social media platforms is the best way to	.420	.059	.374	.284	.147	.303	.020	.279	.089
connect to brands	071	.046	015	.215	.637	.330	.159	.215	.088
As a customer I am rarely passive	.200	.185	.381	.272	070	.235	033	.458	134
Brands social media platforms make a strong impression on me	.594	.224	048	.177	.236	.188	.209	.081	.066
Being involved in various brand activities on brand network platforms gives me an interesting sensory experience	.453	.258	.282	.219	.204	.151	140	.273	.113
Brands active on social platforms and communities appeal strongly to my senses.	.649	.181	.001	.105	.327	.009	037	.043	.203
Brand communities induces my feelings	.436	.272	.324	.428	.133	.284	.039	052	.041
Brands often strongly engages me emotionally	.614	.278	.253	.203	.004	.164	.215	.033	.052
Brands that ask for my opinions often	.311	.671	.218	.076	.172	030	.112	197	.101
stimulates my thinking Overall I'm satisfied	.243	.730	.055	.122	.134	.087	041	.152	.175
Being a customer has been a good choice									
for me I engage in a lot of thinking as a customer of	.151	.635	.165	.198	.084	.152	001	.145	.015
the brand	.579	.229	.281	.117	.062	.207	.256	.074	064
Brand has lived up to my expectations	.230	.553	.032	.063	.048	.314	.283	.122	070
I am part of online communities of brand like apple, Nike etc.	.169	.096	.183	.493	.511	.159	.151	120	092
I follow brand, I use on social media	.273	.147	.347	.113	.595	.167	.012	014	044
Brand network platforms provide with new information	.471	.308	.073	057	.465	.063	.212	.253	.068
Brand network platforms also equip me with some benefits like coupons etc.	.150	.384	.151	.192	.453	069	.253	.155	203
Brand network platforms keep me updated	.261	.115	.131	110	.695	.017	.061	.109	.123
I respond to requests by brands on digital platforms	.501	.017	.446	.051	.376	021	.132	.101	136
I find the brand to be good if it responses	002	.289	.215	201	.284	002	.651	.022	.182
back to me I trust brands who have online discussion forums	.190	.114	.297	.255		115	.524	.078	332
forums I strongly associate with a brand that asks for my opinions	.232	066	.205	.211	.001	.128	.740	015	.207
for my opinions		I	I	I	I	I	I	I	i

l share information about brand's that talk to me on my social pages		.115	.786	.123	.088	.098	.111	.205	032
I intend to stay loyal to the brand that actively on digital platforms I intend to recommend the brand that has	.248	.145	.635	.171	.197	.160	.262	.063	.156
online communities and forums to other people		.172	.697	.210	.220	.087	.230	025	.091
I intend to stay on as a customer if a brand responses to my requests		.099	.463	.169	.039	.034	.255	.101	.626
Extraction Method: Principal Component Ana Rotation Method: Varimax with Kaiser Norma									

a. Rotation converged in 24 iterations.

To determine the underlying relationship amongst various factors that have been discussed in various research papers over years a statistical factor analysis with Varimax rotation was applied as it maximizes the sum of the variances of the squared loadings which leads to all coefficients to be either large or zero with few intermediate value.

According to the factor analysis, rotated component matrix the co-relation values help determine the underlying relationship and define new constructs eliminating constructs with values lower than .5.

COMPONENT 1		Secondary Research suggested Construct	Research Construct
Brands active on social platforms and communities appeal strongly to my senses.	0.649	Experience	
Brands often strongly engages me emotionally	0.614	Perceived Quality	PERCIEVED
Brands social media platforms make a strong impression on me	0.594	Perceived Quality	QUALITY
I engage in a lot of thinking as a customer of the brand	0.579	Brand Association	

COMPONENT 2		Secondary Research suggested Construct	
Overall I'm satisfied	0.73	Brand Satisfaction	
Brands that ask for my opinions often stimulates my thinking 0.6		Brand Association	BRAND SATISFACTION
Being a customer has been a good choice for me	0.635	Brand Satisfaction	
Brand has lived up to my expectations	0.553	Brand Satisfaction	

COMPONENT 3		Secondary Research suggested Construct	
I share information about brand's that talk to me on my social pages	0.786	Perceived Quality	
I intend to recommend the brand that has online communities and forums to other people	0.697	Brand Loyalty	
I intend to stay loyal to the brand that actively on digital platforms	0.635	Brand Loyalty	BRAND LOYALTY
I intend to stay on as a customer if a brand responses to my requests	0.463	Brand Loyalty	
I respond to requests by brands on digital platforms	0.446	Brand Association	

COMPONENT 4		Secondary Research suggested Construct	
I often express my personal needs on network platforms	0.791	Interaction	
I often find solutions with the brand	0.685	Interaction	
I often give feedback for the brand to improve	0.565	Interaction	INTERACTION
I participate in conversations on various platforms	0.584	Interaction	
I am part of online communities of brand like apple, Nike etc.		Awareness	
Brand communities induces my feelings	0.428	Perceived Quality	

COMPONENT 5	Secondary Research suggested Construct		
Brand network platforms keep me updated		Awareness	
Social media platforms is the best way to connect to brands		Platform	
I follow brand, I use on social media		Awareness	AWARENESS
I am part of online communities of brand like apple, Nike etc.		Awareness	
Brand network platforms provide with new information	0.465	Awareness	
Brand network platforms also equip me with some benefits like coupons etc.	0.453	Economic Value	

COMPONENT 6		Secondary Research suggested Construct	
Brands encourages customers to create solutions	0.817	Interaction	
I am actively involved when a brand develops solutions for me		Interaction	CUSTOMER INVOLVEMENT
I feel like I am a part of a community	0.404	Community	
I feel as I am part of a brand family	0.401	Community	

COMPONENT 7		Secondary Research suggested Construct	
I strongly associate with a brand that asks for my opinions		Brand Association	BRAND
I find the brand to be good if it responses back to me		Brand Association	ASSOCIATION
I trust brands who have online discussion forums		Brand Association	

COMPONENT 8 Secondary Research suggested Construct VA	.UE
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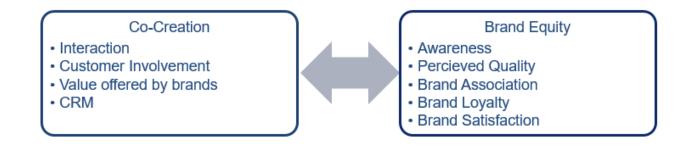
I feel brands offer allot of benefits online	0.657	Economic Value	
I find brand platforms to be informative	0.654	Awareness	
As a customer I am rarely passive	0.458	Brand Association	

COMPONENT 9	COMPONENT 9 Secondary Research suggested Construct				
I intend to stay on as a customer if a brand responses to my requests		Brand Loyalty	CUSTOMER RELATIONSHIP		
I feel motivated to be part of a brand if it offers me discounts, coupons etc.		Economic Value	MANAGEMENT		

This above explained data points suggests a new conceptual model to determine interrelationship between Co-creation and Brand Equity. The new model could be explained as the following



New Model that can be derived after the new relationships found post factor analysis and correlation could be:



This derived model brings about a new set of hypothesis that needs to be verified using structural modeling or MANOVA and checked with normality plot explorations. Thus, the new hypothesis for the research can be:

H1a. Interaction has a positive impact on Awareness

- H1b. Interaction has a positive impact on Perceived Quality
- $\ensuremath{\text{H1c}}\xspace$ A positive interaction improves Brand Association
- H1d. A positive interaction leads to strong brand loyalty
- H1e. A positive interaction leads to higher level of brand satisfaction

H2a Customer Involvement improves the Awareness level

H2b Customer Involvement has a positive impact on Perceived Quality

H2c.Customer Involvement increases Brand Association

H2d. Higher the Customer Involvement higher is the brand loyalty

H2e. Greater customer involvement leads to a greater Brand Satisfaction

H3a. Greater the Value offered by a brand greater is the Brand Awareness **H3b.** Higher the Value offered by a brand a greater the perceived quality **H3c** Greater the Value offered by a brand higher the Brand Association

H3d. Value offered by a brand has a positive impact on Brand loyalty **H3e.** Greater the Value offered by a brand greater is the Brand Satisfaction

H4a. CRM helps build Brand Awareness

H4b. CRM has a positive impact on perceived quality

H4c. CRM helps builds Brand Association

H4d. CRM helps build Brand loyalty

H4e. CRM has a positive impact on Brand Satisfaction

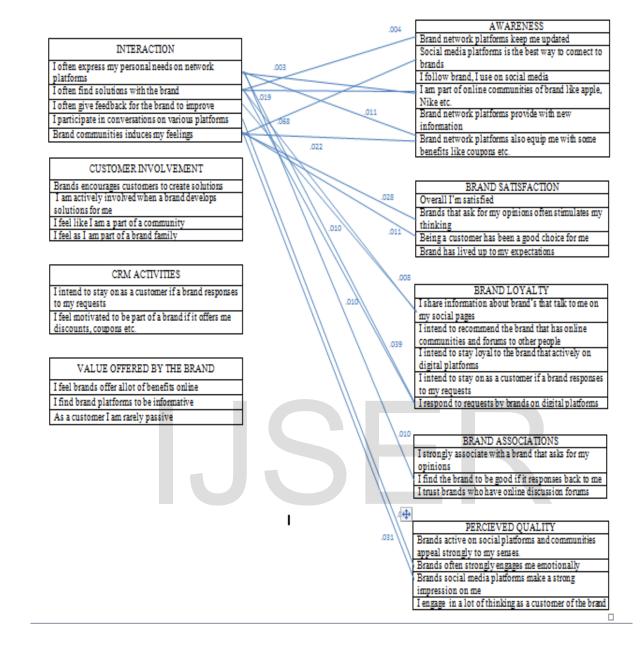
12. Results:

To validate the above hypothesis a statistical program, Multivariate analysis of variance and covariance with a descriptive analysis and homogeneity tests was carried out with SPSS 20 software package. To determine the co- relation between various approaches to cocreation and brand equity attributes. Wherein each factor is selected based the Wilks' Lambda that gives the proportion of variance in the dependent variables not accounted for by variation in the independent variables. A value closer to zero can be interpreted as the acceptance of the hypothesis. The partial eta squared associated with the main factors and the power to detect the main effect validates the hypothesis.

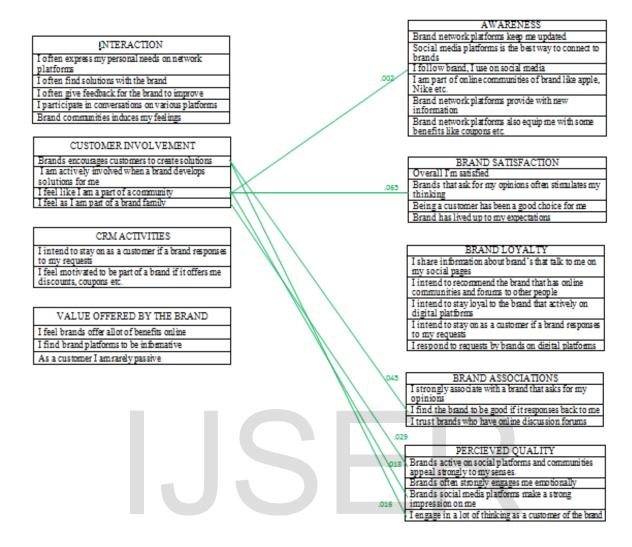
Thus, Brands need to interact with consumers and find solutions with them on digital platforms to increase the level awareness keeping updated at a significance level of 0.04, which is less than 0.05. Brand need to interact with its consumers and induce feelings like feeling of belongingness, which makes social media platforms as the best way to connect to brands with a 0.068 level of significance. Being part of communities and interacting with consumer improves Brand Awareness and it helps consumers share their personal needs on network platforms with a significance level of 0.03. Also, If network platforms equip with conversations, benefits etc. and induce feelings helps improves awareness level with 0.022 significant. Thus we accept the null hypothesis H1a Interaction has a positive impact on Awareness.

Brands that ask for consumer's opinions and stimulate their thinking having conversations on various platforms, communities etc. help boost the overall satisfaction level. Thus we accept the null hypothesis H1e that suggests a positive interaction leads to higher level of brand satisfaction.Brands that find solutions with their consumers and accept feedback from the brands, increases chances of a consumer to be brand loyalist and respond more on digital platforms with level of significance of 0.010, 0.019 respectively which suggests that a positive interaction leads to build brand loyalty. Thus, we accept the null hypothesis H1e.

A brand that have conversation on digital platforms with their consumers leads to an increment in the perceive quality with a significance of 0.023. Regular interactions on social media platforms make strong impression on the customer which in turn increases the perceived quality at 0.031 significance. Thus we accept the null hypothesis H1b.



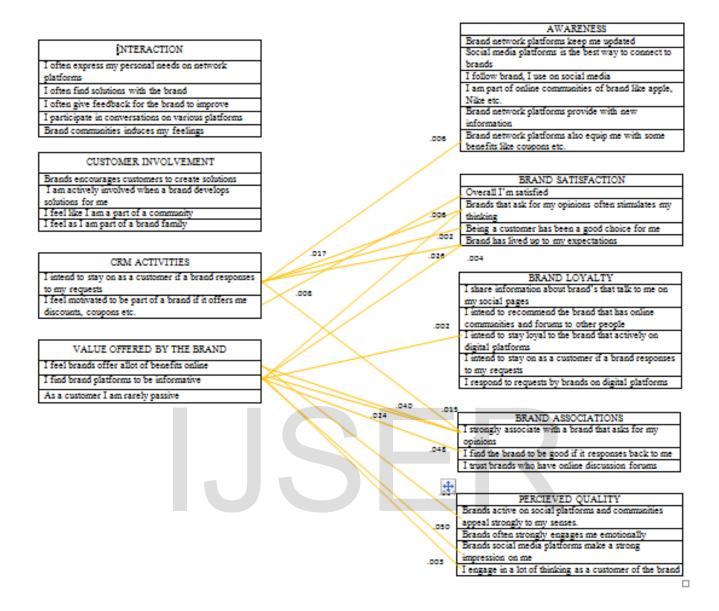
The model with its value of significance suggesting the interaction and its impact of brand equity is as shown above.



Communities help build awareness via pages on social media platforms as F test suggests significance of .002. Thus we accept the null hypothesis H2a. Also, social media platforms create strong impression on consumers with a 0.018 significance level thus improving the overall perception of quality.

If brands encourage consumers to create solution it increases their involvement level and thus, has a significant impact on Brand Association. The multivariate analysis suggests a significance of .045 at a 95% confidence interval. Thus we accept the hypothesis Customer Involvement increases Brand Association H2c.

Brand should involve more customers on social media by encouraging them to create solutions or carry out some crowdsourcing activity or competition as it improves the customers or consumers perception of quality. According to the multivariate analysis, F test suggests a significance of .016 which is p<0.05. Brand should involve into activities and create small brand families within the larger cohort of a brand community and it appeals strongly to the customers sensibilities, thus enhancing perceived quality. F-test reveals a 0.029 significance level, which is less than 0.05. Thus, we accept the null hypothesis H2, Customer Involvement has a positive impact on Perceived Quality.



Brands that provide information about offers, coupons etc. on social media platforms and responds well to their queries help improve the awareness level as F-test suggests a 0.006 level of significance at 95 % confidence interval. Thus, we accept the null hypothesis H3a which suggests greater the value offered by a brand greater is the Brand Awareness level

Consumers are satisfied if brands offer benefits online as multivariate analysis suggests a significance of .008 at 95% confidence interval. Also, Brands that ask for opinions from its consumers it improves the overall level of satisfaction with a significance level of 0.006 which is less than 0.05. Thus, we accept the null hypothesis H3e i.e. brand that offer greater value online the greater is the level of Satisfaction.

If a brand responses to the consumers in time that makes consumers feel satisfied as they it makes them feel the brand to live up to their expectations. A 0.026 significance level Brands that provide information and knowledge to their consumers via digital platform helps increase the satisfaction level with a significance level of .004, which is less than 0.05. Thus, Greater the Value offered by a brand greater is the Brand Satisfaction; we accept the null hypothesis H3e.

Also, a brand that actively converse on digital platform and provide consumers with information about the brands etc. increases the chances for them to stay loyal with the brand. F-test suggests a 0.002 level of significance which validates hypothesis H3d; Value offered by a brand has a positive impact on Brand loyalty.

Brands that ask for opinions from consumer increase Brand Association and have.015 significance for the consumer to stay on as a customer. Also, Consumers think the brand to be the right choice for them, if the brand responses spontaneously to their requests, queries

etc. Thus, maintaining a good consumer relationship management is very important for brand with a 0.002 significance level significance which validates hypothesis H4d; CRM helps build Brand loyalty.

A brand needs to response back to consumer with informative solution that has a 0.048 level of significance which entails to H4b; CRM that has a positive impact on perceived quality. Also, if the brands offer benefits online on social media platforms, communities appeal strongly to consumers and brand platforms are informatively engaging and drive a lot of thinking as a customer of the brand at significance of 0.02, 0.03 that improves the perceived quality. Information as a value offered by brands needs to connect to consumer and engage them emotionally to improve the brands perceived quality. The multivariate analysis suggests a 0.05 significance level.

13. Discussion:

Theoretical contributions

This work's aim has been the study of the relation between value co-creation and brand equity with special reference to IT industry. Also, critically analyze the suggested conceptual framework from the literature written over years and coming up with a model that encapsulates the concept of co-creation and its impact on brand equity for IT industry digitally. This article conceptually contributes to the literature from different points-of-view. Firstly, by analyzing the consequences for Brand Equity it allows a greater comprehension of the value creation process. This is a fundamental aspect that might help a brand to grow, as it directly influences the customer retention and profitability. Secondly, it is, as far as the authors know, the first attempt to empirically measure value co-creation usingLikert scale and a model with special reference to IT industry. This research adopts the point-of-view of the customers themselves, thus, creating it to be more valuable to the brands. The paper might help brands to get their fundamentals right for strategizing and give them a theoretical beat to lead.

Implications for management

The findings of the study suggest that firms through their interaction forums should foster the customers' active participation in the value creation process, as this has been shown to have a positive influence on customer satisfaction. Therefore, and according to the results attained, firms should make an effort to favor this interaction. Brands need to interact with consumers and find solutions with them on digital platforms to increase the level awareness keeping updated. They can do so by creating appropriate communication channels and fostering the involvement of the customer in the process of the production of the service. Being part of communities and interacting with consumer improves Brand Awareness and it helps consumers share their personal needs on network platforms. Brand need to interact with its consumers and induce feelings like feeling of belongingness, which makes social media platforms as the best way to connect to brands. Brands that provide information about offers, coupons etc. on social media platforms and responds well to their queries help improve the awareness.

Stimulating the consumer thinking having conversations on various platforms, communities etc. help boost the overall satisfaction level. Consumers are satisfied if brands offer benefits online. Also, Brands that ask for opinions from its consumers it improves the overall level of satisfaction. If a brand responses to the consumers in time that makes consumers feel satisfied as they it makes them feel the brand to live up to their expectations. Brands that provide information and knowledge to their consumers via digital platform helps increase the satisfaction level. Brand that offer greater value online the greater is the level of Satisfaction.

Moreover, the analysis suggests a positive impact of higher level of involvement on perceived quality. Also, a firm must focus on what generates value for customers as it has shown a positive impact on brand loyalty.

On the other hand, the involvement of the customer in the co-creation process could lead to a negative impact wherein customers start blaming themselves for a possible problem. In this case, the dissatisfaction experienced will be less than when a customer is not involved in the process.

A quick response from the brand adds on to the customer's satisfaction i.e. proper CRM practices; connecting, interacting with customers with informative content and engaging with them on an emotional level eventually increases the brand's equity by improving the level of perceived quality. Constant updates and information shared with brands add on to the customer perceived value for the brand. Brand should involve more customers on social media by encouraging them to create solutions or carry out some crowdsourcing activity or competition as it improves the customers or consumers perception of quality. Consumers think the brand to be the right choice for them, if the brand responses spontaneously to their requests; queries etc. which leads to CRM helping build Brand loyalty

Limitations and future research lines

The current research poses a series of limitations which can be considered before further studies are carried out on the pertaining subject.

The sample might not be a true representation of the universe. Also, the sample belongs to Pune city and it is evident that consumers in different geographies might have different perceptions about higher order concepts like Digital Co-creation.

Also, the no. of respondents (130) should be increased to at least 250 responses for a holistic picture. As 250 is an effective standard number considered for a quant research. The following are the main lines of future research.

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We could compare results and generalize conclusions by replicating this study in other sectors and geographical areas. The study can provide a brand with critical insights and help them to device brand strategies incorporating constructs and the effect of the interdependency of the constructs- Co-creation, Brand equity-and its measures. It can also help quantitatively determine the ROI for a co-creation activity and the Tangible and intangible benefits of the process. Future research can be carried out to determine each proposed sub-construct and their detail influence on the major constructs. Also, the model can be revisited for various other industries and can be critically analyzed. Finally, the study adopts the customer as the analysis unit. It would be interesting to compare the firm's perspective in order to investigate to what extent this contributes to the value generation and what the customer's active participation in the process.

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APPENDIX I

Multivariate Analysis of Variance and Covariance: **DATA TABLE1: INTERACTION** Independent variable 1 vs. Dependent Variables

	Multivar	iate Tes	sts ^a						
Effect		Val ue	F	Hypothe sis df	Error df	Si g.	Partial Eta Squar ed	Noncen t. Parame ter	Observ ed Power ^d
	Pillai's Trace	.907	58.46 1 ^b	5.000	30.00 0	.00 0	.907	292.303	1.000
Intercent	Wilks' Lambda	.093	58.46 1 ^b	5.000	30.00 0	.00 0	.907	292.303	1.000
Intercept	Hotelling's Trace	9.74 3	58.46 1 ^b	5.000	30.00 0	.00 0	.907	292.303	1.000
	Roy's Largest Root	9.74 3	58.46 1 ^b	5.000	30.00 0	.00 0	.907	292.303	1.000
	Pillai's Trace	.595	1.154	20.000	132.0 00	.30 5	.149	23.081	.791
Brandnetworkplatformsprovidewith	Wilks' Lambda	.512	1.123	20.000	100.4 49	.33 9	.154	18.299	.642
newinformation	Hotelling's Trace	.758	1.080	20.000	114.0 00	.38 0	.159	21.598	.746
Roy's Largest F	Roy's Largest Root	.368	2.426 c	5.000	33.00 0	.05 6	.269	12.132	.692
Socialmediaplatformsisthebestwayt oconnecttobrands	Pillai's Trace	.865	1.821	20.000	132.0 00	.02 4	.216	36.428	.963

					100.4	.02			
	Wilks' Lambda	.356	1.834	20.000	49	7	.227	29.571	.891
-	Hotelling's Trace	1.25 4	1.787	20.000	114.0 00	.03 0	.239	35.738	.955
	Roy's Largest Root	.633	4.178 c	5.000	33.00 0	.00 5	.388	20.888	.922
	Pillai's Trace	.688	1.372	20.000	132.0 00	.14 8	.172	27.438	.874
Ifollowbrandsonsocialmediaplatfor	Wilks' Lambda	.458	1.332	20.000	100.4 49	.17 7	.177	21.635	.738
ms	Hotelling's Trace	.894	1.273	20.000	114.0 00	.21 2	.183	25.465	.833
	Roy's Largest Root	.458	3.025 c	5.000	33.00 0	.02 3	.314	15.126	.800
	Pillai's Trace	.838	1.749	20.000	132.0 00	.03 3	.209	34.981	.954
lampartofonlinecommunitiesofbran	Wilks' Lambda	.364	1.788	20.000	100.4 49	.03 2	.223	28.848	.881
dlikeappleNikeetc	Hotelling's Trace	1.23 9	1.766	20.000	114.0 00	.03 3	.237	35.325	.952
	Roy's Largest Root	.633	4.175 °	5.000	33.00 0	.00 5	.387	20.877	.922
	Pillai's Trace	.758	1.544	20.000	132.0 00	.07 7	.190	30.882	.919
Brandnetworkplatformskeepmeupd	Wilks' Lambda	.392	1.637	20.000	100.4 49	.05 8	.209	26.468	.843
ated	Hotelling's Trace	1.19 6	1.705	20.000	114.0 00	.04 2	.230	34.091	.943
	Roy's Largest Root	.863	5.694 c	5.000	33.00 0	.00 1	.463	28.469	.981
	Pillai's Trace	.679	1.350	20.000	132.0 00	.16 0	.170	26.991	.867
Brandnetworkplatformsalsoequipm	Wilks' Lambda	.445	1.389	20.000	100.4 49	.14 6	.183	22.541	.761
ewithsomebenefitslikecouponsetc	Hotelling's Trace	.984	1.402	20.000	114.0 00	.13 6	.197	28.042	.876
	Roy's Largest Root	.624	4.120 c	5.000	33.00 0	.00 5	.384	20.598	.918
	Pillai's Trace	.730	1.473	20.000	132.0 00	.10 1	.182	29.460	.902
OverallI'msatisfied	Wilks' Lambda	.416	1.518	20.000	100.4 49	.09 1	.197	24.596	.807
	Hotelling's Trace	1.07 5	1.532	20.000	114.0 00	.08 4	.212	30.645	.911
	Roy's Largest Root	.690	4.553 c	5.000	33.00 0	.00 3	.408	22.767	.944
	Pillai's Trace	.668	1.322	20.000	132.0 00	.17 6	.167	26.445	.858
Brandsthataskformyopinionsoftenst	Wilks' Lambda	.462	1.316	20.000	100.4 49	.18 7	.175	21.380	.731
imulatesmythinking	Hotelling's Trace	.903	1.286	20.000	114.0 00	.20 3	.184	25.721	.837
	Roy's Largest Root	.476	3.145 °	5.000	33.00 0	.02 0	.323	15.724	.817
	Pillai's Trace	.826	1.716	20.000	132.0 00	.03 8	.206	34.325	.949
Beingacustomerhasbeenagoodchoi	Wilks' Lambda	.377	1.716	20.000	100.4 49	.04 3	.216	27.714	.864
ceforme	Hotelling's Trace	1.17 3	1.672	20.000	114.0 00	.04 8	.227	33.440	.938
	Roy's Largest Root	.658	4.345 c	5.000	33.00 0	.00 4	.397	21.726	.933

								1	1
	Pillai's Trace	.729	1.472	20.000	132.0 00	.10 2	.182	29.431	.902
Brandhasliveduptomyexpectations	Wilks' Lambda	.415	1.525	20.000	100.4 49	.08 9	.197	24.700	.809
	Hotelling's Trace	1.07 9	1.538	20.000	114.0 00	.08 2	.212	30.761	.912
	Roy's Largest Root	.617	4.074 c	5.000	33.00 0	.00 5	.382	20.369	.915
	Pillai's Trace	.835	1.741	20.000	132.0 00	.03 4	.209	34.823	.953
Ishareinformationaboutbrand'sthatt	Wilks' Lambda	.340	1.933	20.000	100.4 49	.01 8	.237	31.127	.910
alktomeonmysocialpages	Hotelling's Trace	1.46 9	2.093	20.000	114.0 00	.00 8	.269	41.866	.982
	Roy's Largest Root	1.10 4	7.288 c	5.000	33.00 0	.00 0	.525	36.440	.996
	Pillai's Trace	.409	.751	20.000	132.0 00	.76 7	.102	15.017	.548
lintendtostayloyaltothebrandthatacti	Wilks' Lambda	.642	.719	20.000	100.4 49	.79 9	.105	11.777	.410
velyondigitalplatforms	Hotelling's Trace	.483	.688	20.000	114.0 00	.83 1	.108	13.769	.493
	Roy's Largest Root	.253	1.668 c	5.000	33.00 0	.17 0	.202	8.340	.506
	Pillai's Trace	.689	1.373	20.000	132.0 00	.14 7	.172	27.461	.875
lintendtorecommendthebrandthath asonlinecommunitiesandforumstoot	Wilks' Lambda	.422	1.493	20.000	100.4 49	.10 0	.194	24.198	.799
h	Hotelling's Trace	1.12 4	1.602	20.000	114.0 00	.06 4	.219	32.034	.925
	Roy's Largest Root	.878	5.794 c	5.000	33.00 0	.00 1	.467	28.969	.983
	Pillai's Trace	.609	1.184	20.000	132.0 00	.27 8	.152	23.684	.805
lintendtostayonasacustomerifabran	Wilks' Lambda	.504	1.151	20.000	100.4 49	.31 3	.157	18.741	.656
dresponsestomyrequests	Hotelling's Trace	.776	1.106	20.000	114.0 00	.35 3	.162	22.118	.759
	Roy's Largest Root	.400	2.638 c	5.000	33.00 0	.04 1	.286	13.189	.734
	Pillai's Trace	.805	1.664	20.000	132.0 00	.04 7	.201	33.274	.941
Irespondtorequestsbybrandsondigit	Wilks' Lambda	.361	1.804	20.000	100.4 49	.03 0	.225	29.107	.885
alplatforms	Hotelling's Trace	1.33 0	1.895	20.000	114.0 00	.01 9	.249	37.895	.967
	Roy's Largest Root	.897	5.920 c	5.000	33.00 0	.00 1	.473	29.602	.985
	Pillai's Trace	.623	1.218	20.000	132.0 00	.25 0	.156	24.354	.819
Istronglyassociatewithabrandthatas	Wilks' Lambda	.469	1.287	20.000	100.4 49	.20 6	.172	20.914	.719
ksformyopinions	Hotelling's Trace	.944	1.345	20.000	114.0 00	.16 6	.191	26.893	.858
	Roy's Largest Root	.711	4.693 c	5.000	33.00 0	.00 2	.416	23.464	.951
	Pillai's Trace	.886	1.878	20.000	132.0 00	.01 9	.221	37.556	.968
lfindthebrandtobegoodifitresponses backtome	Wilks' Lambda	.350	1.869	20.000	100.4 49	.02 3	.231	30.128	.898
	Hotelling's Trace	1.25 7	1.792	20.000	114.0 00	.03 0	.239	35.832	.955

	Rov's Largest Root	.520	3.434	5.000	33.00	.01	.342	17.171	.855
			Ŭ		0 132.0	3 .87	_		
_	Plilars Trace	.304	.042	20.000	00	4	.069	12.630	.466
Itrustbrandswhohaveonlinediscussi	Wilks' Lambda	.675	.631	20.000	49	0	.094	10.365	.357
onforums	Hotelling's Trace	.439	.625	20.000	00	7	.099	12.499	.445
	Roy's Largest Root	.323	2.133 c	5.000	0	6	.244	10.663	.627
	Pillai's Trace	.397	.728	20.000	132.0 00	1	.099	14.563	.532
Brandsactiveonsocialplatformsandc	Wilks' Lambda	.646	.707	20.000	49	1	.103	11.592	.403
ommunitiesappealstronglytomysen	Hotelling's Trace	.483	.688	20.000	00	1	.108	13.764	.493
	Roy's Largest Root	y s Largest Root .520 c 5.000 0 3 .342 17.17 Pillai's Trace .354 .642 20.000 100.4 .88 .094 10.36 wilks' Lambda .675 .631 20.000 100.4 .88 .099 12.49 y's Largest Root .323 2.133 5.000 33.00 .08 .244 10.66 Pillai's Trace .397 .728 20.000 132.0 .79 .099 14.56 Wilks' Lambda .646 .707 20.000 100.4 .81 .103 11.59 otelling's Trace .483 .688 20.000 114.0 .83 1.08 13.76 y's Largest Root .303 $\frac{e}{c}$ 5.000 0 1 .108 13.76 y's Largest Root .303 $\frac{e}{c}$ 5.000 0 1 .108 13.76 y's Largest Root .303 $\frac{e}{c}$ 5.000 0 1 .177 24.45 viks' Lambda .474 1.270 20.	9.990	.594					
	Pillai's Trace	.657	1.298	20.000			.164	25.960	.850
Brandsoftenstronglyengagesmeem	Wilks' Lambda	.474	1.270	20.000			.170	20.638	.711
otionally	Hotelling's Trace	.858	1.223	20.000			.177	24.455	.812
	Roy's Largest Root	.447		5.000			.309	14.747	.788
	Pillai's Trace	.618	1.207	20.000			.155	24.144	.815
Brandssocialmediaplatformsmakea	Wilks' Lambda	.482	1.235	20.000			.167	20.093	.696
strongimpressiononme	Hotelling's Trace	.876	1.248	20.000		.23	.180	24.955	.823
	Roy's Largest Root	.585		5.000			.369	19.296	.897
	Pillai's Trace	.618	1.205	20.000		.26	.154	24.098	.814
lengageinalotofthinkingasacustome	Wilks' Lambda	.493	1.192	20.000	100.4		.162	19.406	.676
rofthebrand	Hotelling's Trace	.818	1.166	20.000	114.0	.29	.170	23.310	.788
	Roy's Largest Root	.472	3.118 c	5.000	33.00	.02	.321	15.588	.814
lfollowbrandsonsocialmediaplatforms Brandnetworkplatformskeepmeupdate Brandsthataskformyopinionsoftenstim	+ Iampartofonlinecommunitie ed + Brandnetworkplatformsa ulatesmythinking + Beingacu shareinformationaboutbrand'	esofbrar Isoequi stomerl sthattal	ndlikeap pmewith hasbeer ktomeor	pleNikeetc isomebene iagoodchoi imysocialp	+ fitslikeco ceforme ages +	oupor +	nsetc + C)veralll'msa	atisfied +

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lintendtostayloyaltothebrandthatactivelyondigitalplatforms + lintendtorecommendthebrandthathasonlinecommunitiesandforumstooth - lintendtostayonasacustomerifabrandresponsestomyrequests + lrespondtorequestsbybrandsondigitalplatforms +

Istronglyassociatewithabrandthatasksformyopinions + Ifindthebrandtobegoodifitresponsesbacktome +

Itrustbrandswhohaveonlinediscussionforums + Brandsactiveonsocialplatformsandcommunitiesappealstronglytomysen +

Brandsoftenstronglyengagesmeemotionally + Brandssocialmediaplatformsmakeastrongimpressiononme +

lengageinalotofthinkingasacustomerofthebrand

b. Exact statistic

c. The statistic is an upper bound on F that yields a lower bound on the significance level.

d. Computed using alpha = .05

Levene's Test of Equality of Error Variances^a

	F	df1	df2	Sig.
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I often express my personal needs on network platforms	.841	118	4	.681
I often find solutions with the brand	3.361	118	4	.121
I participate in conversations on various platforms	3623.649	118	4	.000
I often give feedback for the brand to improve	18.416	118	4	.006
Brand communities induces my feelings		118	4	

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

	Tests of Between-Sub	jects Eff	ects						
Source	Dependent Variable	Type III Sum of Square s	df	Mean Squa re	F	Sig	Partial Eta Squar ed	Noncent Parame ter	Observ ed Power ^f
	I often express my personal needs on network platforms	159.68 6 ^a	88	1.815	1.818	.02 6	.825	159.968	.984
	I often find solutions with the brand	137.52 5 ^b	88	1.563	2.092	.00 9	.844	184.072	.995
Corrected Model	I participate in conversations on various platforms	134.71 0°	88	1.531	2.082	.00 9	.843	183.224	.994
	I often give feedback for the brand to improve	142.11 6 ^d	88	1.615	2.146	.00 7	.847	188.812	.996
	Brand communities induces my feelings	112.87 1 ^e	88	1.283	2.898	.00 0	.882	255.037	1.000
	I often express my personal needs on network platforms	51.092	1	51.09 2	51.18 2	.00 0	.601	51.182	1.000
	I often find solutions with the brand	75.003	1	75.00 3	100.3 89	.00 0	.747	100.389	1.000
Intercept	I participate in conversations on various platforms	63.531	1	63.53 1	86.41 1	.00 0	.718	86.411	1.000
	I often give feedback for the brand to improve	62.910	1	62.91 0	83.58 0	.00 0	.711	83.580	1.000
	Brand communities induces my feelings	68.391	1	68.39 1	154.5 32	.00 0	.820	154.532	1.000
	I often express my personal needs on network platforms	1.933	4	.483	.484	.74 7	.054	1.937	.150
	I often find solutions with the brand	2.123	4	.531	.711	.59 0	.077	2.842	.206
Brandnetworkplatformsprovidewith newinformation	I participate in conversations on various platforms	3.399	4	.850	1.156	.34 7	.120	4.624	.323
	I often give feedback for the brand to improve	.698	4	.174	.232	.91 9	.027	.927	.094
	Brand communities induces my feelings	3.703	4	.926	2.092	.10 3	.198	8.368	.560
	I often express my personal needs on network platforms	5.184	4	1.296	1.298	.29 0	.133	5.194	.361
	I often find solutions with the brand	5.764	4	1.441	1.929	.12 8	.185	7.715	.521
Socialmediaplatformsisthebestwayt oconnecttobrands	I participate in conversations on various platforms	5.369	4	1.342	1.825	.14 7	.177	7.302	.496
	I often give feedback for the brand to improve	3.566	4	.891	1.184	.33 5	.122	4.737	.330
	Brand communities induces my feelings	4.280	4	1.070	2.418	.06 8	.221	9.671	.631
Ifollowbrandsonsocialmediaplatfor	I often express my personal needs on network platforms	2.381	4	.595	.596	.66 8	.066	2.386	.177
ms	I often find solutions with the brand	5.985	4	1.496	2.003	.11 6	.191	8.010	.539

	La patinizzata in a stati	[1					
	I participate in conversations on various platforms	3.587	4	.897	1.220	.32 1	.125	4.879	.340
	I often give feedback for the brand to improve	2.068	4	.517	.687	.60 6	.075	2.747	.200
	Brand communities induces my feelings	2.160	4	.540	1.220	.32 0	.126	4.880	.340
	I often express my personal needs on network platforms	19.558	4	4.889	4.898	.00 3	.366	19.592	.930
	I often find solutions with the brand	10.242	4	2.560	3.427	.01 9	.287	13.709	.800
lampartofonlinecommunitiesofbran dlikeappleNikeetc	I participate in conversations on various platforms	6.006	4	1.501	2.042	.11 0	.194	8.169	.548
	I often give feedback for the brand to improve	5.270	4	1.318	1.750	.16 2	.171	7.002	.478
	Brand communities induces my feelings	2.862	4	.715	1.616	.19 3	.160	6.466	.444
	l often express my personal needs on network platforms	6.316	4	1.579	1.582	.20 2	.157	6.327	.435
	I often find solutions with the brand	13.794	4	3.448	4.616	.00 4	.352	18.463	.913
Brandnetworkplatformskeepmeupd ated	I participate in conversations on various platforms	5.370	4	1.343	1.826	.14 7	.177	7.304	.497
	I often give feedback for the brand to improve	4.009	4	1.002	1.332	.27 8	.135	5.326	.370
	Brand communities induces my feelings	2.106	4	.527	1.190	.33 3	.123	4.759	.332
	I often express my personal needs on network platforms	15.340	4	3.835	3.842	.01 1	.311	15.367	.849
	I often find solutions with the brand	1.450	4	.362	.485	.74 7	.054	1.940	.151
Brandnetworkplatformsalsoequipm ewithsomebenefitslikecouponsetc	I participate in conversations on various platforms	2.153	4	.538	.732	.57 7	.079	2.928	.211
	I often give feedback for the brand to improve	1.981	4	.495	.658	.62 5	.072	2.632	.193
	Brand communities induces my feelings	5.837	4	1.459	3.297	.02 2	.279	13.188	.782
	I often express my personal needs on network platforms	3.187	4	.797	.798	.53 5	.086	3.193	.228
	I often find solutions with the brand	6.637	4	1.659	2.221	.08 7	.207	8.883	.589
Overalll'msatisfied	I participate in conversations on various platforms	3.427	4	.857	1.165	.34 3	.121	4.662	.325
	I often give feedback for the brand to improve	1.549	4	.387	.514	.72 6	.057	2.058	.158
	Brand communities induces my feelings	2.886	4	.721	1.630	.18 9	.161	6.520	.447
	I often express my personal needs on network platforms	5.088	4	1.272	1.274	.29 9	.130	5.097	.354
	I often find solutions with the brand	1.647	4	.412	.551	.69 9	.061	2.204	.166
Brandsthataskformyopinionsoftenst imulatesmythinking	I participate in conversations on various platforms	3.762	4	.941	1.279	.29 7	.131	5.117	.356
	I often give feedback for the brand to improve	3.290	4	.822	1.093	.37 6	.114	4.371	.306
	Brand communities induces my feelings	5.487	4	1.372	3.099	.02 8	.267	12.397	.753
	I often express my personal needs on network platforms	5.727	4	1.432	1.434	.24 4	.144	5.738	.397
Beingacustomerhasbeenagoodchoi ceforme	I often find solutions with the brand	4.554	4	1.138	1.524	.21 7	.152	6.095	.420
	I participate in conversations on various platforms	3.962	4	.991	1.347	.27 3	.137	5.390	.374

	I often give feedback for the brand to improve	.894	4	.224	.297	.87 8	.034	1.188	.108
	Brand communities induces my feelings	6.859	4	1.715	3.875	.01 1	.313	15.499	.852
	l often express my personal needs on network platforms	7.425	4	1.856	1.859	.14 0	.179	7.438	.505
	I often find solutions with the brand	3.251	4	.813	1.088	.37 8	.113	4.352	.305
Brandhasliveduptomyexpectations	I participate in conversations on various platforms	1.633	4	.408	.555	.69 6	.061	2.222	.167
	I often give feedback for the brand to improve	5.851	4	1.463	1.943	.12 6	.186	7.773	.525
	Brand communities induces my feelings	2.877	4	.719	1.625	.19 0	.161	6.501	.446
Ishareinformationaboutbrand'sthatt	l often express my personal needs on network platforms	5.695	4	1.424	1.426	.24 6	.144	5.705	.395
alktomeonmysocialpages	I often find solutions with the brand	12.288	4	3.072	4.112	.00 8	.326	16.447	.874
	I participate in conversations on various platforms	.524	4	.131	.178	.94 8	.021	.713	.083
	I often give feedback for the brand to improve	11.930	4	2.982	3.962	.01 0	.318	15.850	.861
	Brand communities induces my feelings	.517	4	.129	.292	.88 1	.033	1.168	.107
	l often express my personal needs on network platforms	2.917	4	.729	.731	.57 7	.079	2.922	.211
	I often find solutions with the brand	4.056	4	1.014	1.357	.26 9	.138	5.428	.376
lintendtostayloyaltothebrandthatacti velyondigitalplatforms	I participate in conversations on various platforms	3.371	4	.843	1.146	.35 2	.119	4.585	.320
	I often give feedback for the brand to improve	3.230	4	.807	1.073	.38 5	.112	4.291	.301
	Brand communities induces my feelings	1.808	4	.452	1.021	.41 0	.107	4.085	.287
	I often express my personal needs on network platforms	9.792	4	2.448	2.452	.06 5	.224	9.809	.638
lintendtorecommendthebrandthath	I often find solutions with the brand	12.007	4	3.002	4.018	.00 9	.321	16.071	.866
asonlinecommunitiesandforumstoot h	I participate in conversations on various platforms	1.950	4	.488	.663	.62 2	.072	2.653	.194
11	I often give feedback for the brand to improve	3.446	4	.861	1.144	.35 2	.119	4.578	.320
	Brand communities induces my feelings	1.482	4	.370	.837	.51 1	.090	3.348	.238
	l often express my personal needs on network platforms	2.798	4	.700	.701	.59 7	.076	2.803	.203
	I often find solutions with the brand	5.775	4	1.444	1.932	.12 8	.185	7.729	.522
lintendtostayonasacustomerifabran dresponsestomyrequests	I participate in conversations on various platforms	1.678	4	.419	.570	.68 6	.063	2.282	.171
	I often give feedback for the brand to improve	3.620	4	.905	1.202	.32 8	.124	4.809	.335
	Brand communities induces my feelings	1.789	4	.447	1.010	.41 6	.106	4.042	.284
	l often express my personal needs on network platforms	11.328	4	2.832	2.837	.03 9	.250	11.348	.710
Irespondtorequestsbybrandsondigit	I often find solutions with the brand	11.846	4	2.961	3.964	.01 0	.318	15.855	.861
alplatforms	I participate in conversations on various platforms	.641	4	.160	.218	.92 7	.025	.872	.091
	I often give feedback for the brand to improve	4.407	4	1.102	1.464	.23 5	.147	5.855	.404

	Brand communities induces my feelings	2.442	4	.610	1.379	.26 2	.140	5.517	.382
	I often express my personal needs on network platforms	2.987	4	.747	.748	.56 6	.081	2.992	.216
	I often find solutions with the brand	5.069	4	1.267	1.696	.17 4	.166	6.784	.464
Istronglyassociatewithabrandthatas ksformyopinions	I participate in conversations on various platforms	2.065	4	.516	.702	.59 6	.076	2.809	.204
	I often give feedback for the brand to improve	4.082	4	1.020	1.356	.27 0	.138	5.423	.376
	Brand communities induces my feelings	2.035	4	.509	1.150	.35 0	.119	4.599	.321
	l often express my personal needs on network platforms	15.659	4	3.915	3.922	.01 0	.316	15.687	.857
	I often find solutions with the brand	6.820	4	1.705	2.282	.08 1	.212	9.128	.602
lfindthebrandtobegoodifitresponses backtome	I participate in conversations on various platforms	6.200	4	1.550	2.108	.10 1	.199	8.433	.563
	I often give feedback for the brand to improve	5.421	4	1.355	1.801	.15 2	.175	7.202	.490
	Brand communities induces my feelings	2.147	4	.537	1.213	.32 3	.125	4.851	.338
	I often express my personal needs on network platforms	5.657	4	1.414	1.417	.24 9	.143	5.667	.392
	I often find solutions with the brand	1.249	4	.312	.418	.79 5	.047	1.672	.135
Itrustbrandswhohaveonlinediscussi onforums	I participate in conversations on various platforms	.971	4	.243	.330	.85 6	.037	1.320	.115
	I often give feedback for the brand to improve	1.332	4	.333	.442	.77 7	.049	1.770	.141
	Brand communities induces my feelings	1.300	4	.325	.735	.57 5	.080	2.939	.212
	I often express my personal needs on network platforms	2.263	4	.566	.567	.68 8	.063	2.267	.170
	I often find solutions with the brand	4.160	4	1.040	1.392	.25 7	.141	5.568	.386
Brandsactiveonsocialplatformsandc ommunitiesappealstronglytomysen	I participate in conversations on various platforms	1.228	4	.307	.417	.79 5	.047	1.670	.135
	I often give feedback for the brand to improve	2.863	4	.716	.951	.44 7	.101	3.804	.268
	Brand communities induces my feelings	.279	4	.070	.158	.95 8	.018	.630	.079
	I often express my personal needs on network platforms	4.316	4	1.079	1.081	.38 1	.113	4.324	.303
	I often find solutions with the brand	4.115	4	1.029	1.377	.26 3	.139	5.508	.382
Brandsoftenstronglyengagesmeem otionally	I participate in conversations on various platforms	9.575	4	2.394	3.256	.02 3	.277	13.023	.777
	I often give feedback for the brand to improve	2.834	4	.709	.941	.45 2	.100	3.765	.266
	Brand communities induces my feelings	.605	4	.151	.341	.84 8	.039	1.366	.118
Brandssocialmediaplatformsmakea strongimpressiononme	l often express my personal needs on network platforms	9.125	4	2.281	2.285	.08 0	.212	9.141	.603
	I often find solutions with the brand	1.809	4	.452	.605	.66 1	.066	2.421	.180
	I participate in conversations on various platforms	.739	4	.185	.251	.90 7	.029	1.006	.098
	I often give feedback for the brand to improve	.792	4	.198	.263	.90 0	.030	1.052	.101
	Brand communities induces my feelings	5.355	4	1.339	3.025	.03 1	.262	12.099	.742

		1	r –						
	l often express my personal	4.694	4	1.173	1.176	.33 9	.121	4.702	.328
-	needs on network platforms I often find solutions with the					.90			
	brand	.739	4	.185	.247	.90 9	.028	.990	.097
lengageinalotofthinkingasacustome	I participate in conversations on	2.535	4	.634	.862	.49	.092	2 1 1 9	.245
rofthebrand	various platforms	2.000	4	.034	.002	7	.092	3.440	.245
	I often give feedback for the brand to improve	3.550	4	.888	1.179	.33 7	.122	4.716	.329
	Brand communities induces my feelings	4.373	4	1.093	2.470	.06 3	.225	9.880	.641
	I often express my personal needs on network platforms	33.940	34	.998					
	I often find solutions with the brand	25.402	34	.747					
Error	I participate in conversations on various platforms	24.997	34	.735					
	I often give feedback for the brand to improve	25.591	34	.753					
	Brand communities induces my feelings	15.047	34	.443					
	I often express my personal	1139.0	12						
	needs on network platforms	00	3						
	I often find solutions with the	1252.0	12						
	brand	00	3						
Total	I participate in conversations on	1231.0	12						
	various platforms	00	3						
	I often give feedback for the	1311.0	12						
	brand to improve Brand communities induces my	00 1333.0	3 12						
	feelings	00	3						
	I often express my personal	193.62	12						
	needs on network platforms	6	2						
	I often find solutions with the	162.92	12						
	brand	7	2					.990 3.448 4.716	
	I participate in conversations on	159.70	12						
Corrected Total	various platforms	7	2						
	I often give feedback for the	167.70	12						
	brand to improve	7	2						
	Brand communities induces my	127.91	12						
	feelings	9	2						
	a. R Squared = .825 (Adjuste								
	b. R Squared = .844 (Adjuste								
	c. R Squared = .843 (Adjusted								
	d. R Squared = .847 (Adjusted								
	e. R Squared = .882 (Adjuster			:.578)					
	f. Computed using a	apna = .0	э						

DATA TABLE 2:CUSTOMER INVOLVEMENT

Independent Variable 2 vs. Dependent variables

Multivariate Tests ^a										
Effec	t	Valu e	F	Hypothe sis df	Error df	Sig	Partial Eta Squar ed	Noncent Parame ter	Observ ed Power ^d	
Intercept	Pillai's Trace	.895	68.03 9 ^b	4.000	32.00 0	.00 0	.895	272.155	1.000	
	Wilks' Lambda	.105	68.03 9 ^b	4.000	32.00 0	.00 0	.895	272.155	1.000	
	Hotelling's Trace	8.50 5	68.03 9 ^b	4.000	32.00 0	.00 0	.895	272.155	1.000	

		8.50	68.03		32.00	.00			
	Roy's Largest Root	5	9 ^b	4.000	0	.00 0 .22	.895	272.155	1.000
-	Pillai's Trace	.510	1.277	16.000	00	0	.127	20.439	.784
Brandnetworkplatformsprovidewith	Wilks' Lambda	.564	1.269	16.000	98.39 9	.23 3	.133	15.154	.597
newinformation	Hotelling's Trace	.649	1.236	16.000	122.0 00	.25 0	.140	19.782	.760
	Roy's Largest Root	.342	2.990 c	4.000	35.00 0	.03 2	.255	11.960	.738
	Pillai's Trace	.381	.921	16.000	140.0 00	.54 6	.095	14.742	.602
Socialmediaplatformsisthebestwayt	Wilks' Lambda	.659	.900	16.000	98.39 9	.57 1	.099	10.820	.424
oconnecttobrands	Hotelling's Trace	.459	.874	16.000	122.0 00	.60 0	.103	13.985	.565
	Roy's Largest Root	.231	2.024 c	4.000	35.00 0	.11 2	.188	8.095	.546
	Pillai's Trace	.603	1.554	16.000	140.0 00	.08 9	.151	24.868	.876
Ifollowbrandsonsocialmediaplatfor	Wilks' Lambda	.485	1.645	16.000	98.39 9	.07 1	.166	19.524	.740
ms	Hotelling's Trace	.889	1.695	16.000	122.0 00	.05 6	.182	27.117	.905
	Roy's Largest Root	.656	5.737 c	4.000	35.00 0	.00 1	.396	22.950	.964
	Pillai's Trace	.455	1.122	16.000	140.0 00	.34 0	.114	17.958	.713
lampartofonlinecommunitiesofbran	Wilks' Lambda	.608	1.090	16.000	98.39 9	.37 5	.117	13.054	.516
dlikeappleNikeetc	Hotelling's Trace	.548	1.045	16.000	122.0 00	.41 5	.121	16.724	.666
	Roy's Largest Root	.268	2.344 c	4.000	35.00 0	.07 4	.211	9.374	.617
	Pillai's Trace	.338	.808	16.000	140.0 00	.67 5	.085	12.926	.530
Brandnetworkplatformskeepmeupd	Wilks' Lambda	.681	.824	16.000	98.39 9	.65 6	.092	9.913	.386
ated	Hotelling's Trace	.440	.839	16.000	122.0 00	.64 0	.099	13.419	.543
	Roy's Largest Root	.365	3.191 °	4.000	35.00 0	.02 5	.267	12.766	.769
	Pillai's Trace	.304	.721	16.000	140.0 00	.76 9	.076	11.530	.471
Brandnetworkplatformsalsoequipm	Wilks' Lambda	.713	.719	16.000	98.39 9	.76 9	.081	8.665	.334
ewithsomebenefitslikecouponsetc	Hotelling's Trace	.377	.718	16.000	122.0 00	.77 1	.086	11.493	.464
-	Roy's Largest Root	.297	2.602 c	4.000	35.00 0	.05 3	.229	10.410	.669
	Pillai's Trace	.644	1.681	16.000	140.0 00	.05 7	.161	26.889	.906
OverallI'msatisfied —	Wilks' Lambda	.477	1.688	16.000	98.39 9	.06 1	.169	20.029	.753
	Hotelling's Trace	.861	1.642	16.000	122.0 00	.06 8	.177	26.267	.893
	Roy's Largest Root	.466	4.082 c	4.000	35.00 0	.00 8	.318	16.327	.873
Brandsthataskformyopinionsoftenst	Pillai's Trace	.639	1.662	16.000	140.0 00	.06 1	.160	26.594	.902
imulatesmythinking	Wilks' Lambda	.461	1.774	16.000	98.39	.04 6	.176	21.012	.779

	Liote Binele Trans	050	1 007	16.000	122.0	.03	400	20.004	000
ŀ	Hotelling's Trace	.958	1.827 5.770	16.000	00 35.00	5	.193	29.224	.929
	Roy's Largest Root	.659	c	4.000	0	1	.397	23.078	.965
-	Pillai's Trace	.512	1.285	16.000	140.0 00	.21 5	.128	20.560	.787
Beingacustomerhasbeenagoodchoi	Wilks' Lambda	.561	1.280	16.000	98.39 9	.22 5	.134	15.289	.602
ceforme	Hotelling's Trace	.656	1.251	16.000	122.0 00	.24 0	.141	20.012	.766
	Roy's Largest Root	.356	3.118 °	4.000	35.00 0	.02 7	.263	12.470	.758
	Pillai's Trace	.339	.811	16.000	140.0 00	.67 2	.085	12.974	.532
Brandhasliveduptomyexpectations	Wilks' Lambda	.695	.778	16.000	98.39 9	.70 7	.087	9.370	.364
Brandhasiiveduptomyexpectations	Hotelling's Trace	.391	.746	16.000	122.0 00	.74 2	.089	11.931	.482
	Roy's Largest Root	.205	1.797 د	4.000	35.00 0	.15 1	.170	7.189	.491
	Pillai's Trace	.390	.946	16.000	140.0 00	.51 9	.098	15.135	.616
Ishareinformationaboutbrand'sthatt	Wilks' Lambda	.639	.969	16.000	98.39 9	.49 5	.106	11.640	.458
alktomeonmysocialpages	Hotelling's Trace	.519	.989	16.000	122.0 00	.47 4	.115	15.818	.634
	Roy's Largest Root	.419	3.666 c	4.000	35.00 0	.01 4	.295	14.664	.831
	Pillai's Trace	.392	.949	16.000	140.0 00	.51 5	.098	15.189	.618
lintendtostayloyaltothebrandthatacti	Wilks' Lambda	.651	.926	16.000	98.39 9	.54 2	.102	11.127	.437
velyondigitalplatforms	Hotelling's Trace	.472	.899	16.000	122.0 00	.57 2	.105	14.385	.581
	Roy's Largest Root	.293	2.562 c	4.000	35.00 0	.05 5	.227	10.250	.662
	Pillai's Trace	.513	1.288	16.000	140.0 00	.21 3	.128	20.610	.788
lintendtorecommendthebrandthath	Wilks' Lambda	.560	1.284	16.000	98.39 9	.22 3	.135	15.333	.603
asonlinecommunitiesandforumstoot - h	Hotelling's Trace	.658	1.255	16.000	122.0 00	.23 7	.141	20.078	.767
-	Roy's Largest Root	.351	3.069 c	4.000	35.00 0	.02 9	.260	12.274	.750
	Pillai's Trace	.443	1.090	16.000	140.0 00	.37 0	.111	17.442	.697
lintendtostayonasacustomerifabran	Wilks' Lambda	.602	1.113	16.000	98.39 9	.35 4	.119	13.325	.527
dresponsestomyrequests	Hotelling's Trace	.588	1.122	16.000	122.0 00	.34 3	.128	17.948	.706
	Roy's Largest Root	.422	3.697 c	4.000	35.00 0	.01 3	.297	14.787	.834
	Pillai's Trace	.589	1.512	16.000	140.0 00	.10 3	.147	24.196	.865
Irespondtorequestsbybrandsondigit	Wilks' Lambda	.509	1.519	16.000	98.39 9	.10 8	.155	18.069	.696
respondtorequestsbybrandsondigit alplatforms	Hotelling's Trace	.779	1.486	16.000	122.0 00	.11 6	.163	23.769	.851
	Roy's Largest Root	.438	3.830 c	4.000	35.00 0	.01 1	.304	15.318	.849
Istronglyassociatewithabrandthatas ksformyopinions	Pillai's Trace	.480	1.194	16.000	140.0 00	.28 0	.120	19.107	.748

	Wilks' Lambda	.579	1.206	16.000	98.39 9	.27 7	.128	14.425	.570
	Hotelling's Trace	.629	1.198	16.000	122.0 00	.27 9	.136	19.173	.742
	Roy's Largest Root	.392	3.432 c	4.000	35.00 0	.01 8	.282	13.730	.802
	Pillai's Trace	.436	1.072	16.000	140.0 00	.38 8	.109	17.148	.687
lfindthebrandtobegoodifitresponses	Wilks' Lambda	.610	1.080	16.000	98.39 9	.38 4	.116	12.946	.512
backtome	Hotelling's Trace	.565	1.078	16.000	122.0 00	.38 3	.124	17.243	.683
	Roy's Largest Root	.394	3.445 c	4.000	35.00 0	.01 8	.283	13.781	.804
	Pillai's Trace	.416	1.016	16.000	140.0 00	.44 4	.104	16.252	.657
Itrustbrandswhohaveonlinediscussi	Wilks' Lambda	.632	.997	16.000	98.39 9	.46 7	.108	11.962	.472
onforums	Hotelling's Trace	.509	.971	16.000	122.0 00	.49 2	.113	15.536	.624
	Roy's Largest Root	.320	2.799 c	4.000	35.00 0	.04 1	.242	11.195	.705
	Pillai's Trace	.581	1.486	16.000	140.0 00	.11 3	.145	23.783	.857
Brandsactiveonsocialplatformsandc	Wilks' Lambda	.487	1.632	16.000	98.39 9	.07 4	.165	19.382	.735
ommunitiesappealstronglytomysen	Hotelling's Trace	.918	1.750	16.000	122.0 00	.04 6	.187	27.997	.916
	Roy's Largest Root	.754	6.596 c	4.000	35.00 0	.00 0	.430	26.383	.982
	Pillai's Trace	.601	1.548	16.000	140.0 00	.09 1	.150	24.765	.875
Brandsoftenstronglyengagesmeem	Wilks' Lambda	.496	1.588	16.000	98.39 9	.08 6	.161	18.869	.721
otionally	Hotelling's Trace	.832	1.586	16.000	122.0 00	.08 2	.172	25.384	.880
	Roy's Largest Root	.550	4.815 c	4.000	35.00 0	.00 3	.355	19.261	.926
	Pillai's Trace	.503	1.258	16.000	140.0 00	.23 2	.126	20.136	.776
Brandssocialmediaplatformsmakea	Wilks' Lambda	.551	1.324	16.000	98.39 9	.19 8	.138	15.801	.620
strongimpressiononme	Hotelling's Trace	.719	1.371	16.000	122.0 00	.16 7	.152	21.929	.813
	Roy's Largest Root	.565	4.942 c	4.000	35.00 0	.00 3	.361	19.768	.933
	Pillai's Trace	.577	1.475	16.000	140.0 00	.11 7	.144	23.594	.854
lengageinalotofthinkingasacustome	Wilks' Lambda	.491	1.612	16.000	98.39 9	.08 0	.163	19.143	.729
rofthebrand	Hotelling's Trace	.902	1.720	16.000	122.0 00	.05 1	.184	27.520	.910
	Roy's Largest Root	.735	6.431 c	4.000	35.00 0	.00 1	.424	25.725	.980

a. Design: Intercept + Brandnetworkplatformsprovidewithnewinformation + Socialmediaplatformsisthebestwaytoconnecttobrands + Ifollowbrandsonsocialmediaplatforms + lampartofonlinecommunitiesofbrandlikeappleNikeetc + Brandnetworkplatformskeepmeupdated + Brandnetworkplatformsalsoequipmewithsomebenefitslikecouponsetc + OverallI'msatisfied + Brandsthataskformyopinionsoftenstimulatesmythinking + Beingacustomerhasbeenagoodchoiceforme + Brandhasliveduptomyexpectations + Ishareinformationaboutbrand'sthattalktomeonmysocialpages + Iintendtostayloyaltothebrandthatactivelyondigitalplatforms + Iintendtorecommendthebrandthathasonlinecommunitiesandforumstooth + Iintendtostayonasacustomerifabrandresponsestomyrequests + Irespondtorequestsbybrandsondigitalplatforms + Istronglyassociatewithabrandthatasksformyopinions + Ifindthebrandtbobegoodifitresponsesbacktome + Itrustbrandswhohaveonlinediscussionforums + Brandsactiveonsocialplatformsmakeastrongimpressiononme + Brandsoftenstronglyengagesmeemotionally + Brandssocialmediaplatformsmakeastrongimpressiononme + Iengageinalotofthinkingasacustomerofthebrand b. Exact statistic c. The statistic is an upper bound on F that yields a lower bound on the significance level.

d. Computed using alpha = .05

Levene's Test of Equality of Error Variances^a

	F	df1	df2	Sig.
I am actively involved when a brand develops solutions for me	1.253	119	4	.471
Brands encourages customers to create solutions	7.529	119	4	.030
I feel like I am a part of a community	.790	119	4	.712
I feel as I am part of a brand family	5.114	119	4	.060

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Brandnetworkplatformsprovidewithnewinformation +

Socialmediaplatformsisthebestwaytoconnecttobrands +

Ifollowbrandsonsocialmediaplatforms +

lampartofonlinecommunitiesofbrandlikeappleNikeetc +

Brandnetworkplatformskeepmeupdated +

Brandnetworkplatformsalsoequipmewithsomebenefitslikecouponsetc +

OverallI'msatisfied + Brandsthataskformyopinionsoftenstimulatesmythinking +

Beingacustomerhasbeenagoodchoiceforme +

Brandhasliveduptomyexpectations +

Ishareinformationaboutbrand'sthattalktomeonmysocialpages +

lintendtostayloyaltothebrandthatactivelyondigitalplatforms +

lintendtorecommendthebrandthathasonlinecommunitiesandforumstooth +

lintendtostayonasacustomerifabrandresponsestomyrequests +

Irespondtorequestsbybrandsondigitalplatforms +

Istronglyassociatewithabrandthatasksformyopinions +

lfindthebrandtobegoodifitresponsesbacktome +

Itrustbrandswhohaveonlinediscussionforums +

Brandsactiveonsocialplatformsandcommunitiesappealstronglytomysen +

Brandsoftenstronglyengagesmeemotionally +

Brandssocialmediaplatformsmakeastrongimpressiononme +

Iengageinalotofthinkingasacustomerofthebrand

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DATA TABLE 3 & 4: CRM & VALUE

Independent variable 3 & \$ vs. dependent variable

	Multivariat				_	<u></u>	-		
Et	fect	Valu e	F	Hypothe sis df	Error df	Sig	Partial Eta Squar ed	Noncen t. Parame ter	Observ ed Power ^d
	Pillai's Trace	.949	130.01 3 ^b	5.000	35.00 0	.00 0	.949	650.064	1.000
Intercent	Wilks' Lambda	.051	130.01 3 ^b	5.000	35.00 0	.00 0	.949	650.064	1.000
Intercept	Hotelling's Trace	18.5 73	130.01 3 ^b	5.000	35.00 0	.00 0	.949	650.064	1.000
	Roy's Largest Root	18.5 73	130.01 3 ^b	5.000	35.00 0	.00 0	.949	650.064	1.000
	Pillai's Trace	.442	.944	20.000	152.0 00	.53 3	.110	18.881	.687
Brandnetworkplatformsprovide	Wilks' Lambda	.609	.945	20.000	117.0 32	.53 2	.117	15.473	.557
withnewinformation	Hotelling's Trace	.564	.944	20.000	134.0 00	.53 3	.124	18.885	.680
	Roy's Largest Root	.391	2.968°	5.000	38.00 0	.02 3	.281	14.840	.801
	Pillai's Trace	.493	1.068	20.000	152.0 00	.38 9	.123	21.355	.757
Socialmediaplatformsisthebest	Wilks' Lambda	.575	1.061	20.000	117.0 32	.39 9	.129	17.346	.622
waytoconnecttobrands	Hotelling's Trace	.625	1.047	20.000	134.0 00	.41 4	.135	20.931	.739
	Roy's Largest Root	.363	2.762°	5.000	38.00 0	.03 2	.267	13.811	.767
	Pillai's Trace	.542	1.190	20.000	152.0 00	.27 0	.135	23.808	.815
Ifollowbrandsonsocialmediaplatf	Wilks' Lambda	.522	1.269	20.000	117.0 32	.21 4	.150	20.676	.723
orms	Hotelling's Trace	.798	1.336	20.000	134.0 00	.16 7	.166	26.720	.863
	Roy's Largest Root	.611	4.640 ^c	5.000	38.00 0	.00 2	.379	23.202	.953
	Pillai's Trace	.507	1.103	20.000	152.0 00	.35 2	.127	22.065	.775
lampartofonlinecommunitiesofbr	Wilks' Lambda	.571	1.078	20.000	117.0 32	.38 2	.131	17.611	.631
andlikeappleNikeetc	Hotelling's Trace	.623	1.044	20.000	134.0 00	.41 7	.135	20.871	.737
	Roy's Largest Root	.283	2.154°	5.000	38.00 0	.08 0	.221	10.770	.643
	Pillai's Trace	.527	1.153	20.000	152.0 00	.30 3	.132	23.063	.798
Brandnetworkplatformskeepme	Wilks' Lambda	.558	1.125	20.000	117.0 32	.33 4	.136	18.377	.655
updated	Hotelling's Trace	.649	1.087	20.000	134.0 00	.37 0	.140	21.750	.760
	Roy's Largest Root	.280	2.127°	5.000	38.00 0	.08 3	.219	10.636	.636
Brandnetworkplatformsalsoequi	Pillai's Trace	.808.	1.924	20.000	152.0 00	.01 4	.202	38.481	.975
pmewithsomebenefitslikecoupo	Wilks' Lambda	.373	2.028	20.000	117.0 32	.01 0	.219	32.753	.933
	Hotelling's Trace	1.23 8	2.073	20.000	134.0 00	.00 8	.236	41.468	.983

	Roy's Largest Root	.776	5.897°	5.000	38.00	.00	.437	29.486	.986
	Pillai's Trace	.692	1.590	20.000	0 152.0 00	0 .06 2	.173	31.805	.933
	Wilks' Lambda	.444	1.621	20.000	117.0 32	2 .05 9	.184	26.309	.850
Overalll'msatisfied	Hotelling's Trace	.965	1.617	20.000	134.0 00	.05 7	.194	32.331	.934
	Roy's Largest Root	.567	4.312 ^c	5.000	38.00 0	, .00 3	.362	21.560	.936
	Pillai's Trace	.829	1.988	20.000	152.0 00	.01 1	.207	39.758	.979
Brandsthataskformyopinionsoft	Wilks' Lambda	.342	2.234	20.000	117.0 32	.00 4	.235	35.991	.957
enstimulatesmythinking	Hotelling's Trace	1.45 6	2.439	20.000	134.0 00	.00 1	.267	48.772	.995
	Roy's Largest Root	1.08 4	8.240 ^c	5.000	38.00 0	.00 0	.520	41.199	.999
	Pillai's Trace	.780	1.841	20.000	152.0 00	.02 1	.195	36.819	.967
Beingacustomerhasbeenagood	Wilks' Lambda	.369	2.051	20.000	117.0 32	.00 9	.221	33.110	.936
choiceforme	Hotelling's Trace	1.33 1	2.229	20.000	134.0 00	.00 4	.250	44.582	.990
	Roy's Largest Root	1.00 7	7.650 ^c	5.000	38.00 0	.00 0	.502	38.251	.998
	Pillai's Trace	.751	1.755	20.000	152.0 00	.03 0	.188	35.107	.958
Brandhasliveduptomyexpectatio	Wilks' Lambda	.411	1.800	20.000	117.0 32	.02 8	.199	29.144	.893
ns	Hotelling's Trace	1.07 2	1.795	20.000	134.0 00	.02 7	.211	35.906	.960
	Roy's Largest Root	.591	4.493°	5.000	38.00 0	.00 3	.372	22.465	.946
	Pillai's Trace	.430	.915	20.000	152.0 00	.56 9	.107	18.299	.669
Ishareinformationaboutbrand'st	Wilks' Lambda	.611	.937	20.000	117.0 32	.54 3	.116	15.331	.552
hattalktomeonmysocialpages	Hotelling's Trace	.571	.957	20.000	134.0 00	.51 8	.125	19.138	.688
	Roy's Largest Root	.438	3.328°	5.000	38.00 0	.01 4	.305	16.640	.851
	Pillai's Trace	.560	1.236	20.000	152.0 00	.23 2	.140	24.723	.833
lintendtostayloyaltothebrandthat	Wilks' Lambda	.513	1.304	20.000	117.0 32	.19 0	.154	21.244	.739
activelyondigitalplatforms	Hotelling's Trace	.813	1.362	20.000	134.0 00	.15 3	.169	27.237	.872
	Roy's Largest Root	.618	4.696 ^c	5.000	38.00 0	.00 2	.382	23.479	.955
	Pillai's Trace	.280	.571	20.000	152.0 00	.92 7	.070	11.426	.418
lintendtorecommendthebrandth athasonlinecommunitiesandforu	Wilks' Lambda	.741	.553	20.000	117.0 32	.93 6	.072	9.106	.316
athasonlinecommunitiesandforu - nstooth	Hotelling's Trace	.322	.539	20.000	134.0 00	.94 5	.075	10.790	.387
	Roy's Largest Root	.200	1.520 ^c	5.000	38.00 0	.20 7	.167	7.599	.474
Irespondtorequestsbybrandson	Pillai's Trace	.772	1.819	20.000	152.0 00	.02 3	.193	36.373	.965
digitalplatforms	Wilks' Lambda	.405	1.831	20.000	117.0 32	.02 5	.202	29.633	.899

	l	1.06			124.0	02			
	Hotelling's Trace	1.06 7	1.787	20.000	134.0 00	.02 8	.211	35.744	.959
	Roy's Largest Root	.498	3.787°	5.000	38.00 0	.00 7	.333	18.934	.898
	Pillai's Trace	.576	1.278	20.000	152.0 00	.20 2	.144	25.563	.849
Istronglyassociatewithabrandth	Wilks' Lambda	.496	1.376	20.000	117.0 32	.14 8	.161	22.392	.768
atasksformyopinions	Hotelling's Trace	.871	1.459	20.000	134.0 00	.10 6	.179	29.185	.900
	Roy's Largest Root	.665	5.056°	5.000	38.00 0	.00 1	.399	25.279	.968
	Pillai's Trace	.505	1.098	20.000	152.0 00	.35 7	.126	21.969	.772
Ifindthebrandtobegoodifitrespon	Wilks' Lambda	.570	1.081	20.000	117.0 32	.37 9	.131	17.659	.632
sesbacktome	Hotelling's Trace	.629	1.053	20.000	134.0 00	.40 6	.136	21.068	.742
	Roy's Largest Root	.303	2.305°	5.000	38.00 0	.06 4	.233	11.524	.677
	Pillai's Trace	.431	.917	20.000	152.0 00	.56 6	.108	18.348	.671
Itrustbrandswhohaveonlinedisc	Wilks' Lambda	.617	.916	20.000	117.0 32	.56 9	.114	14.991	.540
ussionforums	Hotelling's Trace	.544	.911	20.000	134.0 00	.57 4	.120	18.225	.659
	Roy's Largest Root	.367	2.787°	5.000	38.00 0	.03 1	.268	13.936	.772
	Pillai's Trace	.572	1.269	20.000	152.0 00	.20 8	.143	25.373	.846
Brandsactiveonsocialplatformsandcommunitiesappealstronglyto	Wilks' Lambda	.509	1.322	20.000	117.0 32	.17 9	.155	21.533	.746
mysen	Hotelling's Trace	.813	1.362	20.000	134.0 00	.15 2	.169	27.243	.872
	Roy's Largest Root	.588	4.466 ^c	5.000	38.00 0	.00 3	.370	22.329	.945
	Pillai's Trace	.299	.614	20.000	152.0 00	.89 8	.075	12.285	.452
Brandsoftenstronglyengagesme	Wilks' Lambda	.727	.590	20.000	117.0 32	.91 3	.077	9.703	.339
emotionally	Hotelling's Trace	.340	.570	20.000	134.0 00	.92 7	.078	11.393	.411
	Roy's Largest Root	.185	1.407°	5.000	38.00 0	.24 4	.156	7.033	.440
	Pillai's Trace	.532	1.166	20.000	152.0 00	.29 2	.133	23.313	.804
Brandssocialmediaplatformsma	Wilks' Lambda	.538	1.203	20.000	117.0 32	.26 4	.144	19.622	.693
keastrongimpressiononme	Hotelling's Trace	.735	1.231	20.000	134.0 00	.23 9	.155	24.625	.825
	Roy's Largest Root	.535	4.064 ^c	5.000	38.00 0	.00 5	.348	20.321	.920
	Pillai's Trace	.642	1.453	20.000	152.0 00	.10 6	.161	29.066	.903
engageinalotofthinkingasacust	Wilks' Lambda	.462	1.534	20.000	117.0 32	.08 3	.176	24.921	.824
omerofthebrand	Hotelling's Trace	.953	1.596	20.000	134.0 00	.06 2	.192	31.918	.930
	Roy's Largest Root	.694	5.275°	5.000	38.00 0	.00 1	.410	26.374	.975

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a. Design: Intercept + Brandnetworkplatformsprovidewithnewinformation + Socialmediaplatformsisthebestwaytoconnecttobrands + Ifollowbrandsonsocialmediaplatforms + lampartofonlinecommunitiesofbrandlikeappleNikeetc + Brandnetworkplatformskeepmeupdated + Brandnetworkplatformsalsoequipmewithsomebenefitslikecouponsetc + OverallI'msatisfied + Brandsthataskformyopinionsoftenstimulatesmythinking + Beingacustomerhasbeenagoodchoiceforme + Brandhasliveduptomyexpectations + Ishareinformationaboutbrand'sthattalktomeonmysocialpages + Iintendtostayloyaltothebrandthatactivelyondigitalplatforms + Iintendtorecommendthebrandthathasonlinecommunitiesandforumstooth + Irespondtorequestsbybrandsondigitalplatforms + Istronglyassociatewithabrandthatasksformyopinions + Ifindthebrandtobegoodifitresponsesbacktome + Itrustbrandswhohaveonlinediscussionforums + Brandsactiveonsocialplatformsmakeastrongimpressiononme + Iengageinalotofthinkingasacustomerofthebrand b. Exact statistic c. The statistic is an upper bound on F that yields a lower bound on the significance level.

d. Computed using alpha = .05

Levene's Test of Equality of Error Variances^a

[F	df1	df2	Sig.
I feel motivated to be part of a brand if it offers me discounts, coupons etc.	5.543	119	4	.052
I feel brands offer allot of benefits online		119	4	
I intend to stay on as a customer if a brand responses to my requests		119	4	
As a customer I am rarely passive	4.093	119	4	.087
I find brand platforms to be informative		119	4	

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Brandnetworkplatformsprovidewithnewinformation +

Socialmediaplatformsisthebestwaytoconnecttobrands +

Ifollowbrandsonsocialmediaplatforms +

lampartofonlinecommunitiesofbrandlikeappleNikeetc +

Brandnetworkplatformskeepmeupdated +

Brandnetworkplatformsalsoequipmewithsomebenefitslikecouponsetc +

OverallI'msatisfied + Brandsthataskformyopinionsoftenstimulatesmythinking +

Beingacustomerhasbeenagoodchoiceforme +

Brandhasliveduptomyexpectations +

Ishareinformationaboutbrand'sthattalktomeonmysocialpages +

lintendtostayloyaltothebrandthatactivelyondigitalplatforms +

lintendtorecommendthebrandthathasonlinecommunitiesandforumstooth +

Irespondtorequestsbybrandsondigitalplatforms +

Istronglyassociatewithabrandthatasksformyopinions +

lfindthebrandtobegoodifitresponsesbacktome +

Itrustbrandswhohaveonlinediscussionforums +

Brandsactiveonsocialplatformsandcommunitiesappealstronglytomysen +

Brandsoftenstronglyengagesmeemotionally +

Brandssocialmediaplatformsmakeastrongimpressiononme +

lengageinalotofthinkingasacustomerofthebrand

	Tests of Between-Su	bjects Ef	fects	S					
Source	Dependent Variable	Type III Sum of Square s	df	Mean Squar e	F	Sig	Partial Eta Squar ed	Noncent Paramet er	Observ ed Power ^f
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	93.703 a	84	1.116	1.372	.13 8	.747	115.223	.943
	I feel brands offer allot of benefits online	109.99 1 ^b	84	1.309	2.160	.00 4	.823	181.412	.998
Corrected Model	I intend to stay on as a customer if a brand responses to my requests	106.20 1 ^c	84	1.264	2.532	.00 1	.845	212.659	1.000
	As a customer I am rarely passive	119.02 6 ^d	84	1.417	1.230	.24 0	.726	103.289	.906
	I find brand platforms to be informative	97.853 e	84	1.165	2.842	.00 0	.860	238.737	1.000
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	116.76 8	1	116.7 68	143.5 85	.00 0	.786	143.585	1.000
	I feel brands offer allot of benefits online	87.213	1	87.21 3	143.8 43	.00 0	.787	143.843	1.000
Intercept	I intend to stay on as a customer if a brand responses to my requests	105.07 6	1	105.0 76	210.4 07	.00 0	.844	210.407	1.000
	As a customer I am rarely passive	70.588	1	70.58 8	61.25 5	.00 0	.611	61.255	1.000
	I find brand platforms to be informative	89.441	1	89.44 1	218.2 14	.00 0	.848	218.214	1.000
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	.902	4	.225	.277	.89 1	.028	1.109	.105
Brandnetworkplatformsprovide	I feel brands offer allot of benefits online	2.496	4	.624	1.029	.40 4	.095	4.117	.294
withnewinformation	I intend to stay on as a customer if a brand responses to my requests	1.618	4	.405	.810	.52 6	.077	3.241	.235
	As a customer I am rarely passive	1.718	4	.429	.373	.82 7	.037	1.491	.126
	I find brand platforms to be informative	2.488	4	.622	1.517	.21 6	.135	6.069	.425
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	1.853	4	.463	.570	.68 6	.055	2.279	.173
Socialmediaplatformsisthebest	I feel brands offer allot of benefits online	4.879	4	1.220	2.012	.11 2	.171	8.047	.549
waytoconnecttobrands	I intend to stay on as a customer if a brand responses to my requests	1.589	4	.397	.796	.53 5	.075	3.182	.231
	As a customer I am rarely passive	5.596	4	1.399	1.214	.32 0	.111	4.856	.344
	I find brand platforms to be informative	.921	4	.230	.562	.69 2	.054	2.248	.171
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	.769	4	.192	.237	.91 6	.024	.946	.096
Ifollowbrandsonsocialmediaplatf	I feel brands offer allot of benefits online	4.554	4	1.138	1.878	.13 4	.161	7.510	.517
orms	I intend to stay on as a customer if a brand responses to my requests	4.164	4	1.041	2.084	.10 1	.176	8.338	.566
	As a customer I am rarely passive	2.490	4	.623	.540	.70 7	.053	2.161	.166
	I find brand platforms to be informative	2.936	4	.734	1.791	.15 0	.155	7.164	.496

		1	1	r			-	r	
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	5.332	4	1.333	1.639	.18 4	.144	6.557	.457
1	I feel brands offer allot of benefits online	2.523	4	.631	1.040	.39 9	.096	4.161	.297
andlikeappleNikeetc	I intend to stay on as a customer if a brand responses to my requests	2.023	4	.506	1.013	.41 3	.094	4.051	.289
	As a customer I am rarely passive	1.627	4	.407	.353	.84 0	.035	1.412	.121
Brandnetworkplatformskeepme updated Brandnetworkplatformsalsoequi omewithsomebenefitslikecoupo nsetc	I find brand platforms to be informative	3.197	4	.799	1.950	.12 1	.167	7.799	.535
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	3.401	4	.850	1.045	.39 6	.097	4.182	.298
Brandnatworkplatformskaanma	I feel brands offer allot of benefits online	2.679	4	.670	1.105	.36 8	.102	4.419	.314
updated	I intend to stay on as a customer if a brand responses to my requests	2.212	4	.553	1.107	.36 7	.102	4.429	.315
	As a customer I am rarely passive	6.775	4	1.694	1.470	.23 0	.131	5.879	.413
	I find brand platforms to be informative	3.241	4	.810	1.977	.11 7	.169	7.908	.541
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	1.895	4	.474	.583	.67 7	.056	2.330	.176
Brandnetworkplatformsalsoequi	I feel brands offer allot of benefits online	3.591	4	.898	1.481	.22 7	.132	5.923	.415
pmewithsomebenefitslikecoupo nsetc	I intend to stay on as a customer if a brand responses to my requests	8.439	4	2.110	4.225	.00 6	.302	16.898	.890
	As a customer I am rarely passive	9.665	4	2.416	2.097	.10 0	.177	8.387	.569
•	I find brand platforms to be informative	3.673	4	.918	2.240	.08 2	.187	8.960	.601
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	3.448	4	.862	1.060	.38 9	.098	4.240	.302
	I feel brands offer allot of benefits online	9.850	4	2.463	4.061	.00 8	.294	16.246	.877
OverallI'msatisfied	I intend to stay on as a customer if a brand responses to my requests	2.541	4	.635	1.272	.29 7	.115	5.088	.360
	As a customer I am rarely passive	3.727	4	.932	.809	.52 7	.077	3.234	.235
	I find brand platforms to be informative	2.016	4	.504	1.230	.31 4	.112	4.919	.348
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	3.167	4	.792	.974	.43 3	.091	3.894	.279
	I feel brands offer allot of benefits online	1.799	4	.450	.742	.56 9	.071	2.966	.217
Brandsthataskformyopinionsoft enstimulatesmythinking	I intend to stay on as a customer if a brand responses to my requests	6.840	4	1.710	3.424	.01 7	.260	13.697	.807
	As a customer I am rarely passive	4.920	4	1.230	1.067	.38 6	.099	4.269	.304
	I find brand platforms to be informative	6.924	4	1.731	4.223	.00 6	.302	16.892	.890
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	3.462	4	.866	1.064	.38 7	.098	4.258	.303
Beingacustomerhasbeenagood choiceforme	I feel brands offer allot of benefits online	1.242	4	.311	.512	.72 7	.050	2.049	.159
	I intend to stay on as a customer if a brand responses to my requests	10.334	4	2.583	5.173	.00 2	.347	20.693	.947

		1	1	1		10			
	As a customer I am rarely passive	8.733	4	2.183	1.895	.13 1	.163	7.578	.521
	I find brand platforms to be informative	2.498	4	.624	1.524	.21 4	.135	6.094	.427
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	2.289	4	.572	.704	.59 4	.067	2.815	.207
Brandhasliveduptomyexpectatio	I feel brands offer allot of benefits online	3.730	4	.933	1.538	.21 0	.136	6.152	.431
ns	I intend to stay on as a customer if a brand responses to my requests	6.219	4	1.555	3.113	.02 6	.242	12.454	.764
	As a customer I am rarely passive	1.837	4	.459	.399	.80 8	.039	1.594	.132
	I find brand platforms to be informative	7.600	4	1.900	4.635	.00 4	.322	18.541	.919
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	1.671	4	.418	.514	.72 6	.050	2.055	.159
Ishareinformationaboutbrand'st	I feel brands offer allot of benefits online	.310	4	.078	.128	.97 1	.013	.512	.074
hattalktomeonmysocialpages	I intend to stay on as a customer if a brand responses to my requests	3.553	4	.888	1.779	.15 3	.154	7.115	.493
	As a customer I am rarely passive	4.236	4	1.059	.919	.46 3	.086	3.676	.264
	I find brand platforms to be informative	1.889	4	.472	1.152	.34 7	.106	4.608	.327
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	.995	4	.249	.306	.87 2	.030	1.224	.111
linten dteate vlav altethebrandthat	I feel brands offer allot of benefits online	3.209	4	.802	1.323	.27 8	.120	5.293	.373
lintendtostayloyaltothebrandthat activelyondigitalplatforms	I intend to stay on as a customer if a brand responses to my requests	2.500	4	.625	1.252	.30 5	.114	5.006	.354
	As a customer I am rarely passive	2.033	4	.508	.441	.77 8	.043	1.764	.142
	I find brand platforms to be informative	8.246	4	2.062	5.030	.00 2	.340	20.118	.941
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	1.857	4	.464	.571	.68 5	.055	2.283	.174
lintendtorecommendthebrandth	I feel brands offer allot of benefits online	1.293	4	.323	.533	.71 2	.052	2.132	.164
athasonlinecommunitiesandforu mstooth	I intend to stay on as a customer if a brand responses to my requests	1.768	4	.442	.885	.48 2	.083	3.540	.255
	As a customer I am rarely passive	2.585	4	.646	.561	.69 3	.054	2.243	.171
	I find brand platforms to be informative	.261	4	.065	.159	.95 8	.016	.636	.080
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	3.337	4	.834	1.026	.40 6	.095	4.103	.293
Iroonondtorogue statut da sa da sa	I feel brands offer allot of benefits online	6.743	4	1.686	2.780	.04 0	.222	11.121	.709
Irespondtorequestsbybrandson digitalplatforms	I intend to stay on as a customer if a brand responses to my requests	3.286	4	.821	1.645	.18 2	.144	6.580	.458
giaipiationns	As a customer I am rarely passive	4.227	4	1.057	.917	.46 4	.086	3.668	.264
	I find brand platforms to be informative	5.178	4	1.294	3.158	.02 4	.245	12.632	.771
Istronglyassociatewithabrandth atasksformyopinions	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	.748	4	.187	.230	.92 0	.023	.920	.095

	I feel brands offer allot of benefits online	3.934	4	.983	1.622	.18 8	.143	6.488	.453
	I intend to stay on as a customer if a brand responses to my requests	7.062	4	1.766	3.535	.01 5	.266	14.142	.821
	As a customer I am rarely passive	1.240	4	.310	.269	.89 6	.027	1.076	.103
	I find brand platforms to be informative	.809	4	.202	.493	.74 1	.048	1.973	.154
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	2.059	4	.515	.633	.64 2	.061	2.532	.189
Ifindthohrandtohogoodifitroopoo	I feel brands offer allot of benefits online	.809	4	.202	.334	.85 4	.033	1.335	.117
lfindthebrandtobegoodifitrespon sesbacktome	I intend to stay on as a customer if a brand responses to my requests	2.135	4	.534	1.069	.38 5	.099	4.275	.305
	As a customer I am rarely passive	3.958	4	.990	.859	.49 7	.081	3.435	.248
	I find brand platforms to be informative	4.338	4	1.085	2.646	.04 8	.213	10.585	.684
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	1.366	4	.341	.420	.79 3	.041	1.680	.137
	I feel brands offer allot of benefits online	1.518	4	.380	.626	.64 7	.060	2.504	.187
Itrustbrandswhohaveonlinedisc ussionforums	I intend to stay on as a customer if a brand responses to my requests	3.687	4	.922	1.846	.14 0	.159	7.383	.509
	As a customer I am rarely passive	1.674	4	.419	.363	.83 3	.036	1.453	.124
	I find brand platforms to be informative	2.541	4	.635	1.550	.20 7	.137	6.199	.434
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	.893	4	.223	.274	.89 3	.027	1.098	.104
Brandsactiveonsocialplatformsa	I feel brands offer allot of benefits online	7.689	4	1.922	3.171	.02 4	.245	12.682	.772
ndcommunitiesappealstronglyto mysen	I intend to stay on as a customer if a brand responses to my requests	.904	4	.226	.452	.77 0	.044	1.810	.145
	As a customer I am rarely passive	2.104	4	.526	.456	.76 7	.045	1.826	.146
	I find brand platforms to be informative	2.430	4	.608	1.482	, .22 6	.132	5.930	.416
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	1.012	4	.253	.311	.86 9	.031	1.244	.112
	I feel brands offer allot of benefits online	.949	4	.237	.391	.81 4	.039	1.566	.130
Brandsoftenstronglyengagesme emotionally	I intend to stay on as a customer if a brand responses to my requests	2.189	4	.547	1.096	.37 2	.101	4.384	.312
	As a customer I am rarely passive	1.099	4	.275	.238	.91 5	.024	.954	.096
	I find brand platforms to be informative	1.699	4	.425	1.036	.40 1	.096	4.145	.296
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	1.418	4	.354	.436	.78 2	.043	1.744	.141
	I feel brands offer allot of benefits online	2.807	4	.702	1.157	.34 4	.106	4.629	.329
Brandssocialmediaplatformsma keastrongimpressiononme	I intend to stay on as a customer if a brand responses to my requests	3.364	4	.841	1.684	.17 3	.147	6.737	.469
	As a customer I am rarely passive	4.243	4	1.061	.921	.46 2	.086	3.682	.265
	I find brand platforms to be informative	4.281	4	1.070	2.611	.05 0	.211	10.444	.678

	1	1							
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	1.237	4	.309	.380	.82 1	.038	1.521	.128
	I feel brands offer allot of benefits online	2.582	4	.645	1.065	.38 7	.098	4.259	.303
lengageinalotofthinkingasacust omerofthebrand	I intend to stay on as a customer if a brand responses to my requests	1.367	4	.342	.684	.60 7	.066	2.737	.202
	As a customer I am rarely passive	4.014	4	1.003	.871	.49 0	.082	3.483	.251
	I find brand platforms to be informative	7.827	4	1.957	4.774	.00 3	.329	19.096	.928
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	31.716	39	.813			.038 1.521 .121 8 .098 4.259 .301 0 .066 2.737 .201 9 .082 3.483 .25 0 329 19.096 92		
Error	I feel brands offer allot of benefits online	23.646	39	.606					
EIIOI	I intend to stay on as a customer if a brand responses to my requests	19.476	39	.499					
	As a customer I am rarely passive	44.942	39	1.152					
	I find brand platforms to be informative	15.985	39	.410					
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	1744.0 00	12 4		309 $.380$ 1 $.038$ 1.521 $.12$ 645 1.065 $.38$ $.098$ 4.259 $.30$ 342 $.684$ $.60$ $.066$ 2.737 $.20$ $.003$ $.871$ $.49$ $.082$ 3.483 $.25$ $.957$ 4.774 $.00$ $.329$ 19.096 $.92$ 813 $$ $$ $$ $$ $$ 606 $$ $$ $$ $$ $$ 499 $$ $$ $$ $$ $$ $.152$ $$ $$ $$ $$				
	I feel brands offer allot of benefits online	1745.0 00	12 4						
Total	I intend to stay on as a customer if	1892.0							
	a brand responses to my requests	00							
	As a customer I am rarely passive	00	4						
	informative	1550.0 00	12 4						
	I feel motivated to be part of a brand if it offers me discounts, coupons etc.	125.41 9	12 3						
	I feel brands offer allot of benefits online	133.63 7							
Corrected Total	I intend to stay on as a customer if a brand responses to my requests	125.67 7	12						
	coupons etc. 23.646 39 .606 I feel brands offer allot of benefits online 23.646 39 .606								
		113.83	12						
a. R Squared = .747 (Adjusted R	Squared = .202)	•			·			I	
b. R Squared = .823 (Adjusted R									
c. R Squared = .845 (Adjusted R									
d. R Squared = .726 (Adjusted R									
e. R Squared = .860 (Adjusted R	Squared = .557)								
f. Computed using alpha = .05									

Appendix II

DATA COLLECTION:

Impact of co-creation on brand equity has been theoretically discussed over years in various research papers, but a quantitative research that justifies the phenomenon is not found in justifiable numbers. Thus, the research aims at quantitatively justifying the impact of co-creation on brand equity. To do this a one to one survey has been carried out.

Expected Responses: 120-150

Completed Responses: 130

DATA COLLECTION: Questionnaire

DATA COLLECTION: Questionnaire

Impact of Digital Co-Creation on Brand Equity with special reference to IT Industry

Questionnaire	
Questionnaire	
Name:	
Gender: Female Male	
Age:	
What is the highest degree or level of school you have completed? degree received.	If currently enrolled, mark the previous grade or highest
 9th, 10th or 11th grade 12th grade, no diploma High school graduate - high school diploma or the equivalent (for example: GED) Some college credit, but less than 1 year 1 or more years of college, no degree 	Bachelor's degree (for example: BA, AB, BS) Master's degree (for example: MA, MS, MEng, MEd, MSW, MBA) Professional degree (for example: MD, DDS, DVM, LLB, JD) Doctorate degree (for example: PhD, EdD)
 Employed for wages Self-employed Out of work and looking for work Out of work but not currently looking for work What different kinds of electronic devices do you use? A. PC/Laptop B. Smartphone C. Mobile phone D. Tate	 A student Retired Unable to work
What device do you use for Internet access? A Smartphone B Tablet PC C Netbook D PC/Laptop	D
 How much time per week do you spend on surfing the Internet? 0- 7 hours per week 14-21 hours per week 28-35 hours per week 	 7- 14 hours per week 21-28 hours per week more than 35 hours
 What do you use the Internet for? a. to keep in touch with friends and be entertained b. to read local, national and international news c. to download music, films, games d. to look for technical support 	 e. to send e-mails I to look for other helplines f. to pursue school activities g. to navigate E to play online games h. to buy things i. to read entertainment news or gossip j. to do other things

	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree
I often express my personal needs on network platforms	1	2	3	4	5
I often give feedback for the brand to improve	1	2	3	4	5
I participate in conversations on various platforms	1	2	3	4	5
I often find solutions with the brand	1	2	3	4	5

I am actively involved when a brand develops solutions for me	1	2	3	4	5
Brands encourages customers to create solutions	1	2	3	4	5
I feel like I am a part of a community	1	2	3	4	5
I feel as I am part of a brand family	1	2	3	4	5
I feel motivated to be part of a brand if it offers me discounts, coupons etc.	1	2	3	4	5
I feel brands offer allot of benefits online	1	2	3	4	5
I find brand platforms to be informative	1	2	3	4	5
I follow brands on social media platforms	1	2	3	4	5
I find it engaging, to have an conversation with a brand	1	2	3	4	5
Social media platforms is the best way to connect to brands	1	2	3	4	5
As a customer I am rarely passive	1	2	3	4	5
Brands social media platforms make a strong impression on me	1	2	3	4	5
Being involved in various brand activities on brand network platforms gives me an interesting sensory experience	1	2	3	4	5
Brands active on social platforms and communities appeal strongly to my senses.	1	2	3	4	5
Brand communities induces my feelings	1	2	3	4	5
Brands often strongly engages me emotionally	1	2	3	4	5
Brands that ask for my opinions often stimulates my thinking	1	2	3	4	5
Overall I'm satisfied	1	2	3	4	5
Being a customer has been a good choice for me	1	2	3	4	5
I engage in a lot of thinking as a customer of the brand	1	2	3	4	5
Brand has lived up to my expectations	1	2	3	4	5
I am part of online communities of brand like apple, Nike etc.	1	2	3	4	5
I follow brand, I use on social media	1	2	3	4	5
Brand network platforms provide with new information	1	2	3	4	5
Brand network platforms also equip me with some benefits like coupons etc.	1	2	3	4	5

Brand network platforms keep me updated	1	2	3	4	5
I respond to requests by brands on digital platforms	1	2	3	4	5
I find the brand to be good if it responses back to me	1	2	3	4	5
I trust brands who have online discussion forums	1	2	3	4	5
I strongly associate with a brand that asks for my opinions	1	2	3	4	5
I share information about brand's that talk to me on my social pages	1	2	3	4	5
I intend to stay loyal to the brand that actively on digital platforms	1	2	3	4	5
I intend to recommend the brand that has online communities and forums to other people	1	2	3	4	5
I intend to stay on as a customer if a brand responses to my requests	1	2	3	4	5

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