

Cloud Computing Adoption in Banking System of Nepal

Aatish Bajracharya¹ & Rabi Rouniyar²

¹PG Scholar, Lord Buddha Education Foundation, Kathmandu, Nepal

²Assistant Professor (IT), Lord Buddha Education Foundation, Kathmandu, Nepal

Abstract

As of now, banks are progressively embracing cloud computing (CC) to satisfy their fluctuated purposes and to make an adaptable and coordinated banking sector that can rapidly react to new business needs. Be that as it may, past examinations will in general zero in additional on the appropriation issues of CC from the hierarchical viewpoint with little consideration paid on the clients' perspective on these cloud-based administrations. This research aims to investigate the adoption of CC among the banking segment & to find out the major challenges and opportunities in Nepal. Various articles were evaluated and much was found about the intricacy of CC. The status of cloud acknowledgment and their significant issues were explained by the members who consented those given consent for this study. Security, network, accessibility, etc. were discovered to be the significant explanation behind postponement in cloud appropriation. Accessibility and security are the key angles which can be expanded through the proper appropriation of cloud according to the articles survey.

Keywords: Cloud computing (CC), Emerging technologies, Banking, Challenges.

1 INTRODUCTION

The utilization of IT in banks is basically determined by expanding client request & transaction volume. All things considered, banks are escalated clients of IT & subsequently, IT assumes a significant part in the banking business.

CC is a technology for utilizing pervasive, advantageous, on-request network ingress to a common collective source of customizable computing resources (for instance, networks, servers, stockpiling, appliance, & assistance) which could be rapidly managed & conveyed with imperceptible management attempt or specialist organization cooperation as per the NIST (Peter Mell, 2011) is broadly acknowledged & fills in as establishment for the accompanying exploration. It embodies six fundamental attributes & three comparing administration models. The six attributes are:

The on-request self-administration for arrangement & arrival of assets, for example, sever time & network stockpiling.

A broadband network admittance to utilize the abilities over the network (for example web).

Asset pooling to provide various clients utilizing a multi-occupant engineering.

Area autonomy so the administration could be gotten to paying little heed to the topographical base of the client.

Quick flexibility permitting the clients to arrangement & delivery assets with the business needs.

Estimated administrations permitting cloud-frameworks to naturally control & enhance resource usage by using a metering ability at a deliberation stage (e.g., capacity, handling, transfer speed & dynamic client accounts).

The SPI-stack of CC are as follows:

- SaaS
- PaaS
- IaaS

The target of this exploration is on the usage & advantages of CC in the Nepal banking segment it won't be recognized the diverse service models.

Organization size is a normally utilized factor for the examination of technical development in an authoritative viewpoint. The Nepal banking sector is divided: Out of the approx. 61 enrolled banks in Nepal~90% have a place with two enormous banking groups (Banks, July 2011). These banks customarily don't have own data server farms however utilize shared information administrations inside the group. Thusly, the choice in case to utilize CC-Service isn't being made by a solitary bank

yet the entire aggregate. Consequently, following examination zeroed in on enormous banks that have the force & power to settle on the utilization of CC for their usage. Therefore, organization size was explored in this exploration work as a prospective affecting variable for the utilization of CC in banks. The connection among the appropriation of advancement & redistributing just as the going with the board uphold is a wide field of conversation. The executives uphold is a significant factor for fruitful usage. Additionally, the choice for a usage venture is made on the administration level of an undertaking. Along these lines, the board uphold was utilized as factor affecting the reception of CC in banks. On the off chance that a bank chooses to utilize CC-Services the functioning stage needs to actualize these. For the usage the advancement availability of an organization assumes a significant job. Writing shows that the aptitude of representatives and the mechanical requirements is significant for the appropriation of an innovative advancement inside an organization. (Cavoukian, 2010) saw that the Grid Computing (that could be viewed as the predecessor of CC) fitness expands the physical part by a mortal feature. Jointly these depict the functional preparation of an organization for the utilization of a mechanical advancement. In this examination the hierarchical status to execute CC-Services is spoken to by the CC fitness build. The determining factor of exchange rates are the recurrence of the exchange, the explicitness of the resource for move & the vulnerability of the exchange. In view of exchange cost hypothesis, it is expected that budgetary assets assume a significant function for the selection of a development (Elzamy, 2019).

1.1 CSP & DCs in Nepal

In Nepal, most of DCs give oversight service, collocation, network uphold and cloud services. The cloud service suppliers in Nepal give just restricted sort of cloud services with restricted alternative. Practically neither of any organizations gives an expert level full cloud services with SLA. The rundown given beneath portrays the DCs and cloud service suppliers in Nepal:

GIDC is an international standard Government's DC operated through NITC. GIDC began offering types of assistance to just government associations in 2009. At first, GIDC was giving just webhosting, email facilitating & worker co-area services. At present GIDC is demonstrating cloud services to not many government associations. The kind of cloud services gave by GIDC is generally IaaS & PaaS. Since all the services gave by GIDC are liberated from cost, so there is no reasonable SLA among customers & GIDC. GIDC gives cloud services through single DC & they don't have DR center yet. They have focused to manufacture their own DR center in Hetauda inside 2016. Data Hub is an international standard web DC in Nepal. It offers the types of assistance like co-area services, data & organization security, catastrophe recuperation. It is situated on Thapathali, Kathmandu (Sharma, June 2017).

1.2 Problem Statement

CC has created a colossal measure of intrigue & energy as of late as it gives another and helpful approach to address IT challenges across & past budgetary services (Arapinis, March 2012). Banks as of late began to work together with accomplices or outsider IT service supplier to share IT assets for supporting and giving normal financial services to their clients on a security rich condition (Sardet, 2012). By the utilization of different IT services, the framework venture cost and its administration complexities to banks are additionally expanded. Notwithstanding, banks would not put their data/application on the outer public clouds as a result of dread of dangers on client data protection, security and privacy gives that may be brought from utilizing it (Aberer, 2013). The exchanges between the banks' records must be made do with an elevated level security and a significant level presentation with a constant system the board if the system requirements for a developing system recuperation (Thabit, 2019).

CC underpins banks to make current business sectors & services to concede from competitors & build up the methods user's retrieval & usage of the bank's services. Hence, it is important to additionally understanding the variables that cultivate CC appropriation in the financial business (Lundberg, 2015). Hypothetically, the selection of cloud utilized applications by bank clients has been appeared to make a big scope of chances for them (Huang ZQ, 2011).

1.3 Research Questions

Research question is an essential element in any kind of research. The research questions below are the research problems that are considered in this dissertation.

- How to find out the characteristics which are influencing the adoption of CC applications by banks clients in Nepal?
- How to understand the current usage pattern of adopting cloud services in banking sector of Nepal?
- How to explore the potential benefits of CC in banking segment of Nepal?

1.4 Aim & Objectives

This research is aimed to investigate fortuity & hurdles between CC & bank segment & to figure out with certain recommendations, how to embrace CC in this area taking over the worries. With regards to this research concerns associated with the set-up of CC, partner concerns & aspects with respect to appropriation of CC in bank segment have been learned toward the end a couple of proposals will be given about the fate of CC in this division:

1. To investigate the characteristics that impact adoption of CC applications by banks clients in Nepal.
2. To know the current usage pattern of adopting cloud services in banking sector of Nepal.
3. To explore the potential benefits of CC in banking sectors of Nepal.

1.5 Scope and Significance

This research was aimed to find out the factors (Kautish et al, 2008, 2012, 2013, 2020) influencing adoption of cloud-based applications in banks of Nepal & explore the potential benefits of CC in banking sectors. The research would assist with find out & recognize the new creative thought on CC which could help for banking segment in Nepal.

2 LITERATURE REVIEW

2.1 Opportunities & Challenges of CC

(Bahja, February 2013) attempted to investigate openings and obstructions among CC and bank division and come out with certain recommendations, how to embrace CC in this part mulling over the worries. With regards to this work associated with the arrangement of CC, partners concern and factors in regards to selection of CC in bank division have been contemplated and toward the end a couple of proposals will be given about the eventual fate of CC in this segment.

The point of (Elzamly, 2019) is to distinguish basic issues and difficulties in CC for banking associations. They recognized twenty basic cloud issues for banking associations based optional information, for example, Protection of Cloud Data and Privacy, approval, and verification for a cloud framework, Safeguard the Confidentiality of Cloud Information, openness adequacy or accessibility of cloud information, and so forth. Besides, we got the basic issues from CC models: Mobility and banking application, cloud administrations, cloud sending, cloud hazard the board, and cloud security model.

(Sharma, June 2017) meant to examine the status of CC among business and government associations, to investigate the significant worries of associations with respect to the reception of CC, to discover the significant difficulties and openings on selection of CC in Nepal. The investigation demonstrated that Government & Business associations were in comparative situation in selection of CC in Nepal. The writing was looked into & was found about the unpredictability of CC. The condition of CC acknowledgment & their significant problems were explained by the members who consented to catch up interviews in a review directed. Security, network, accessibility, seller area and lawful issues were discovered to be the significant purpose behind postponement in cloud selection.

(Rani, 2012) investigates the favorable circumstances for banking with CC, issue emerges when utilizing banking with CC and some answer for that.

The fundamental reason for (Yenew, 2019) is to plan the CC design for Dashen bank, that will diminish the work requirement for overseeing IT framework & upgrade the utilization of innovation

with the necessary security check. This examination zeroed in on planning parts of CC. This investigation utilized meeting, perception and record examination to assemble the information. The meeting was led on the chose office and worker of the bank. The perception was at the DC of the Dashen bank utilizing an agenda. Every necessary information was gathered from the main office of Dashen bank. The examination uncovered the administration of the bank perceived the expected advantage of CC & have begun managing organizations like Microsoft and IBM to embrace the innovation. Nonetheless, due to the nonappearance of administrative system and security concerns, quick reception of CC keeps an eye on troublesome.

2.2 Adoption of CC in Banking

(Rieger, August 15-17, 2013) explores the utilization of CC in German banks & the related advantages & dangers as senior administration sees them. Utilized the TOE-Framework along 10 ace meetings with senior management persons of German banks have been coordinated to take the professional decision models & dangers of CC. A few elements impacting the CC choice have been distinguished, among them the innovation supporting framework, government guidelines, security & consistence prerequisites. Besides, the budgetary advantages came up as the most significant saw advantage & government guideline (esp. protection/security guidelines) are the important significant dangers seen by senior administration.

(Frăţilă, 2013) quickly investigations the Romanian Internet banking sector & think about probably the much famous Internet banking stages. They additionally reach a few inferences about this market with regards to the new CC conveyance models.

The target of (Abera, 2013) is to locate an elective answer for procurement and utilization of data innovation to convey proficient, adaptable and versatile IT administrations for utilizing Ethiopian Banking Industries from creative advances.

(Asadi, 2013) examines about how the selection of CC helps banking setting to satisfy client needs and enhanced their job so proficiently. It's trusted that the outcomes will assist the associations with distinguishing the impact of CC on their exchanges. Their examination was completed in Malaysia bank in UTM & utilized an overview by poll to understand bank clients to receive novice innovation. An arbitrary example of 162 respondents, who are matured 22 & more seasoned & dwell in the Malaysia were selected via Survey Sampling. Overview information was examined utilizing the Partial Least Squares (PLS) strategy with SmartPLS to examine for the legitimacy of the auxiliary model & the estimation model. At last, they proposed an appropriate model for the selection of CC in the banking segment.

(Alharthi, 2017) intends to suggest a system to research technological & organizational achievement elements which empower the movement cycle of the Saudi Universities' ICT to the cloud condition.

The primary target of (Alizadeh, 2020) is to distinguish and rank the successful components on reception of CC in e-banking. The elements were recognized from writing audit in four measurements dependent on TOE & HOT-fit models. Because of this investigation, 16 variables were recognized in four measurements. Utilizing fuzzy cooperative choice creation model & pairwise examination among elements (by a study of 63 specialists, scholastics & reasonable people in the field), those components were weighted & positioned. Their outcomes depicted that specialized, environmental, human & organizational factors separately ought to be taken for selection of CC in e-banking & particularly 'protection & security', 'political issues', 'intricacy' & 'similarity' are fundamental elements in appropriation of CC in Iranian e-banking administrations.

2.3 Role of IT in Banking

(Al Isma'ili, et al., 2016) demonstrated that there is a developing affectability & ability between the Small & Medium-Sized Enterprises (SMEs), in money related & scholarly circles, regarding the selection of the CC innovation in Australia. The CC innovation diminishes starting capital speculation, on-request assets, makes the administrations versatile, & spares the operational expenses. The investigation demonstrated gave the significant determinants, for example, the socio-specialized factors for the selection of the CC innovation in the Australian market.

In (Hernández-Nieves, 2020), a novice FC arrangement is introduced, created in the region of

Fintech. It incorporates prescient frameworks during the time spent conveyance of customized client administrations for the proposal of the results of a banking element. The inspiration driving this research is to enhance parts of client assistance administrations, particularly, accomplish more noteworthy security, expanded straightforwardness and nimbleness of cycles just as decrease element the executive's costs.

(Vassilev, January 2020) suggested the consequences of a research on utilizing voice colleagues to empower budgetary & business activities that needs verification with expanded degree of security. A few models of verification administration with two-factor confirmation with the end goal of voice-controlled computerized banking & online installments have been created at the CSRCLMU.

(Vijai, 2020) features the data innovation in the Indian banking segment. This paper is distinct. Auxiliary data square estimates gathered from various sites, reports, and diaries.

(Thabit, 2019) featured a guide of building up a model for CC banking in Yemen. This will contribute in overhauling the advances utilized in the administrations of the data frameworks of banks in Yemen.

(Bataev, July 2018) analyzes the points of view for actualizing cloud computerized banking frameworks in Russia and on the planet. In such manner, the paper investigates the world and Russian business sectors of CC at the present phase of advancement. The extent of CC application in the money related circle is examined; an accentuation is set on the utilization of CC banking frameworks.

Research goal of (Bose, February 2019) is to present cloud-based multi-factor verification design to the money related organizations that will give significant stages of information insurance. They suggested a triple-stage confirmation cycle to build up character & find out in case of malware assaults while using banking applications by clients from far off areas.

In (Huang ZQ, 2011), different parts of CC identified with information protection and framework security for banking & monetary administrations industry have been presented.

(Owusu-Tucker, 2018) tries to survey the function of CC in accomplishing key nimbleness inside the UK banking area & gives suggestions on how associations in the banking division could turn out to be spryer in their activities. Past research has revealed insight into how utilizing Cloud innovation can improve an association's advancement, which is a key factor in any quickly evolving part. So as to survey the job CC has on accomplishing key deftness in the banking area, we distinguish the facilitators or hindrances to accomplishing key spryness effectively.

(More, February 2018) showed a security structure which could provide assurance & uprightness to exchanging fragile information via the cloud or the correspondence frameworks, considering the use of both ABE & BRE Algorithm.

(Bucchiarone, 2018) present an encounter report of a true contextual investigation so as to show how adaptability is emphatically influenced by re-actualizing a solid engineering into microservices. The contextual investigation is utilized on the FX Core framework, a crucial arrangement of Danske Bank, the biggest bank in Denmark & one of the main budgetary establishments in Northern Europe.

3 RESEARCH DESIGN AND METHODOLOGY

3.1 Introduction

RM is one among significant segment in the investigation, which decides the technique for RM. It builds up parts of research structures, for example, systems, strategies & techniques. Research techniques are significant devices for recognizing issues, should be investigated, & accomplish set objectives in research (Al Kilani, 2016). As indicated by (Al Kilani, 2016), research techniques assume a significant function in guaranteeing the nature of research and deciding if the consequences of one examination can be definitively incorporated with the aftereffects of another. The fundamental reason for the RM is to give precious stone information about the technique or cycle to utilized, & to examine research inquiries for goal. In this manner, it tends to be characterized as an instrument for gathering information & examination that must be viable with research questions & destinations so as to acquire precise & compelling outcomes.

3.2 Research Approach

The attributes of the point & season of the examination is significant in the midst of choosing research approach. Present investigation is principally founded on significant information sources & is situated partially on secondary sources.

Primary Data Source

- Questionnaires & Survey

Secondary Data Source

- Internet
- Conferences & Journals

3.3 Population & Sampling

Population is finished arrangement of cases from which a sample is taken. The sample is a subset of a bigger population, chosen by the analyst to partake in an exploration venture. Sample is a sub-set or some aspect of the ale population. The motivation behind examining is to diminish the costs regarding cash, exertion and time. A sum of 203 respondents were taken in this investigation and every one of them were IT division of banks are taken for the examination. These respondents were chosen utilizing basic testing method. The testing strategies for the examination followed non-probabilistic sampling procedures for example convenience sampling.

Subsequently, the sample size of N is 133.06 is utilized for this exploration. The polls will fill in surveys report design from google online structure, and discoveries gathered for the utilization of CC in banking segment.

3.4 Data Collection

The reason for this examination is to find, analyze & comprehend the moving province of CC utilization in Nepalese Banking frameworks. So as to consider the CC utilization in Banks of Nepal, information assortment strategies will be applied to investigate targets & examination issues.

All through the investigation, the samples follow a mixed research approach in which subjective' & quantitative strategies' & methods utilized. Hybrid investigates' technique empower specialists to exploit functional strategies & frameworks that utilization numerous strategies to address research questions' generally than restricting or obliging analysts' decisions. The exploration samples were from banking offices in Nepal.

A lot of Likert scale survey were made ready for the reception of CC & practice of banks in the installment framework. These inquiries coordinated at IT office heads & framework directors. As they deal with all data, framework capacities and activity, including their consistence security. The poll for the IT division dependent on the NRB review agenda & the ICT security agenda plan.

4 DATA ANALYSIS AND FINDINGS OF RESEARCH

4.1 DA

It is a significant initial step for directing statistical investigations. It gives you a thought of the appropriation of your information, causes you recognize anomalies & empower you distinguish relationship among variables, subsequently preparing you to direct further statistical investigations. Notwithstanding, with accessibility of countless numbers sorts of graphical & synopsis draws near, specialists get befuddled about which way to deal with use for investigation of their information. They either wind up leading a scope of investigations, subsequently burning through their time, or totally skirt this essential advance of statistical examination, accordingly expanding their odds of settling on mistaken choices

Descriptive analyses are divided into two types:

1. DA for each individual variable
2. DA for quantitative variables (Dhand, June 11, 2015)

Some individual variables are there in the data collected from the questionnaire that define quality/features of variables. These variables are like gender, age, years of experience etc. The following tables shows DA for each individual variable.

4.2.1 Overview Analysis of Questionnaire Results

4.1.1.1 Descriptive information of quantitative variables

The "Likert Scale" style is utilized for these kinds of quantitative variables; their choices are similarly 1. Strongly Agree, 2. Agree, 3. Neutral, 4. Disagree & 5. Strongly disagree.

The DA incorporates figuring of statistical estimates, for example, minimum & maximum, mean and standard deviation esteems.

Table 1: Quantitative variables

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
Positive impacts on the banking sector	203	1.0	4.0	2.108	.6434
Negative impacts on the banking sector	203	1.0	5.0	3.719	.7278
Boost and enhance performance of the banking sectors	203	1.0	5.0	2.059	.5857
Safe enough to be integrated into the banking sector	203	1.0	5.0	2.241	.6569
Issues with using technology provided	203	1.0	5.0	2.438	.9900
Success story about technology adaptation in recent times	203	1.0	5.0	2.261	.6644
Matured enough to move into cloud computing	203	1.0	5.0	2.300	.7060
Clients and customers would react positively to the adoption	203	1.0	5.0	2.236	.5569
Clients and customers would react negatively to the adoption	203	1.0	5.0	3.443	.7179
Help the industry diversify business operations	203	1.0	4.0	2.172	.5310
Offers cost effective ways to transform businesses in the banking sector	203	1.0	4.0	2.197	.5545
Enough technological infrastructure which can support cloud computing	203	1.0	5.0	2.655	.7894
Specialized human resources who implement the cloud computing	203	1.0	5.0	2.384	.6966
Top management support who can positively influence cloud-computing	203	1.0	5.0	2.414	.7286
Government support which can positively influence cloud-computing adaptation	203	1.0	5.0	3.034	.8524
Clients and customers would feel safe to use services provided by cloud computing	203	1.0	4.0	2.182	.6144
Moving into the cloud would help the industry to increase investment	203	1.00	5.00	2.1823	.53703
Bright future in adaptation of cloud computing	203	1.0	5.0	1.995	.6410
Familiar with cloud computing	203	1.0	5.0	2.128	.8974
Valid N (listwise)	203				

4.2 Correlation Analysis

It is a framework for quantifiable evaluation used to ponder the idea of a relationship among two continuous variables. If the correlation is made among two variables, it derives that when there is a precise change in one variable, there is in like way a conscious change in the other; the variables modify together over a specific time range. The assessment of the correlation coefficient shifts among +1 & - 1. An assessment of ± 1 shows an ideal degree of connection among the two variables (djsresearch, 2020).

4.2.1 Correlation between Knowledge on CC & Factors influencing adoption of CC

The questionnaire for Knowledge on CC & Factors influencing adoption of CC are summed up to a single variable & the correlation among these variables is calculated. There is a strong positive correlation in the above table as the Pearson correlation value is 0.632 which indicates that there is stronger positive correlation between the Knowledge on CC & Factors influencing adoption of CC of

the respondents. It means the respondent having Knowledge on CC showed positive response on Factors influencing adoption of CC.

Table 4. 7: Correlation between Knowledge on CC & Factors influencing adoption of CC

Correlations			
		Knowledge_on_cloud_computing	Factors_influencing_adoption_of_cloud_computing
Knowledge_on_cloud_computing	Pearson Correlation	1	.632**
	Sig. (2-tailed)		.000
	N	203	203
Factors_influencing_adoption_of_cloud_computing	Pearson Correlation	.632**	1
	Sig. (2-tailed)	.000	
	N	203	203

** . Correlation is significant at the 0.01 level (2-tailed).

5 CONCLUSION AND RECOMMENDATION

5.1 Research Findings

The findings as per the research questions are as follows:

1. How to identify the factors which influencing adoption of cloud-based applications by banks customers?

To identify the factors which influencing adoption of cloud-based applications by banks customers, the survey from IT personal in 15 different banks of Kathmandu, Nepal is done. After the questionnaire response from respondent from different banks the researcher come to know that there are different factors which can influencing adoption of cloud-based applications by banks customers, such factors are like Boost and enhance performance of the banking sectors, Success story about technology adaptation in recent times, Bankers sectors has matured enough to move into cloud computing, Help the industry diversify business operations, Offers cost effective ways to transform businesses in the banking sector, Government support which can positively influence cloud-computing adaptation, Clients and customers would feel safe to use services provided by cloud computing, Moving into the cloud would help the industry to increase investment etc.

Also, from the correlation analysis between Knowledge on CC & Factors influencing adoption of CC the it is seen that there is a strong positive correlation between the Knowledge on CC & Factors influencing adoption of CC of the respondents. It means the respondent having Knowledge on CC showed positive response on Factors influencing adoption of CC, it shows that the above factors are influencing adoption of cloud-based applications by banks customers.

2. How to understand the current usage pattern of adopting cloud services in banking sector of Nepal?

The study makes a significant contribution to the body of the knowledge, particularly in the domain of new technological adoption. Very few existing literatures of CC has now, attempted a thorough report on the elements that impact the distributed computing appropriation from the clients' point of view. The instrument utilized in this investigation has been confirmed for unwavering quality, legitimacy, and discriminant test. It is in this manner reasonable for presume that the examination model and the instruments give a sound premise to understanding these components and which can be utilized as an establishment for future inventive investigations by different specialists.

The handy ramifications of this examination, in any case, relies on results from the investigation, which can be by both the financial business and distributed computing suppliers to limit their decisions dependent on a superior comprehension of the components

that impact clients' viewpoints on the selection of distributed computing in the financial part. This can help cloud suppliers organize their administrations after dependent on client's decisions. It can likewise assist them with increasing better understanding into clients' inclinations, in this manner zeroing in on better client relations, human relations and monetary administration, all of which can assist the saves money with holding the current clients as well as to pull in new ones. This examination, thusly, endeavors to offer significant data to the financial area and associations all in all, that may come helpful in dynamic with respect to distributed computing selection. Finally, it offers cloud suppliers a direct information on the most huge and basic factors that must be considered in the arrangement of cloud-based applications and administrations to purchasers.

3. How to explore the potential benefits of CC in banking sector of Nepal?

After the questionnaire response from respondent from different banks the researcher come to know that there are different kinds of benefits of CC in banking sector of Nepal. such benefits are like Boost and enhance performance of the banking sectors, Help the industry diversify business operations and help the industry to increase investment etc.

Also, from the chi-square test between the Familiar with CC Vs Boost & enhance performance of the banking sectors, it can be seen that the respondent with Familiar with CC has higher rate of response on the Boost & enhance performance of the banking sectors. About 95.7% of the familiar respondent agree on the Boost & enhance performance of the banking sectors.

Since the P-value is 0.000 which is small as compared to the significance level of 0.05. This means there is a statistically significant relationship between Familiar with CC and Boost & enhance performance of the banking sectors. From the survey and data analysis, it can be said that there are numerous types of benefits of CC in banking sector of Nepal.

5.2 Conclusion

CC has played a main part in the present data framework advances with such alluring properties as versatility, speed, pay more only as costs arise example and cost decrease. CC has risen as an effective field in the exploration network as a result of its groundbreaking force on different stages, framework as an assistance and program. Regardless of its various advantages and favorable circumstances, CC endures a low client reception rate combined with the way that there is a shortage of articles in client concentrates independent of the significant job clients play in the achievement & disappointment of developing advancements. Conditions, for example, cost, trust, security & protection were distinguished as the significant drivers of CC selection in the banking division. The examination offers a significant base for CC suppliers to comprehend the more profound issues encompassing client reception of CC especially, in the banking area. A few constraints of this investigation incorporate the little sample size utilized, which may restrict the measurable noteworthiness of this examination.

The significant purposes behind the utilization of CC are the apparent money related advantages. Budgetary contemplations, not key viewpoints appear to be the principle driver for a choice towards CC. The reasons against for the utilization of CC end up being security concerns. Particularly the supplier and information area, outsider access and unfaithful supplier representatives and the security execution on supplier side are significant. In outline it has been indicated that cost pressure is the major helpful driver which shocks no one given the nearby idea of CC and re-appropriating. On the impeding side, guideline and explicitly IS and - protection are to be referenced. Summing up the results of the meeting a make way towards CC selection can't yet be found in the German banking industry. Our meeting accomplices just sent low scope and not security/protection touchy arrangements. Likewise, the far and wide utilization of public or hybrid cloud is not yet clear. Despite the fact that Gartner put CC on its 2008 promotion cycle, plainly a major effect on the financial business can't yet be reported - if the NIST definition is applied.

5.3 Future Recommendations

Some of the recommendation had been mentioned as follows:

- The CC ought to be actualized in the bank for keep up the great administrations to the clients.
- The CC would give the security and would limit the additional use on the superfluous equipment hardware.
- The uproarious processing would be the assumed imperative part in the serious market.
- Banks are also +ve in case of adoption of this new technology (CC).

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