INFLUENCE OF INFORMATION COMMUNICATION TECHNOLOGY ON JOB PERFORMANCE OF LIBRARIANS IN FEDERAL UNIVERSITIES IN NORTH-CENTRAL, NIGERIA

¹Adamu, Mohammed Saba, ² Udoudoh, Samuel J. (Ph. D) & ³ Babalola, Gideon A. (Ph. D)

¹ University Library Services. Federal University of Technology Minna, Niger State,

Nigeria

¹ mohd.adamu@futminna.edu.ng Phone: +2347037769819
² & Department of Library Information Technology. Federal University of Technology Minna, Niger State, Nigeria

sam.udoudoh@futminna.edu.ng Phone: +2347039087071 g.babalola@futminna.edu.ng Phone: +2348034370219

Abstract

This study investigated the influence of Information Communication Technology (ICT) on job performance of librarians in federal university libraries in North-Central, Nigeria. Three research questions guided the study in line with the objectives. Descriptive survey research design was used and the target population of eighty-two (82) librarians in the three selected federal university libraries in North-Central, Nigeria were adopted for this study. A close ended structured questionnaire was used as data collection instrument. Total frequencies and median were statistical tools used for data analysis. Results showed that level of job performance of librarians is moderate, influence of ICT skills possession on job performance of librarians is high and influence of use of ICT facilities is moderate. ICT skills possession and use of ICT facilities jointly and significantly has an influence contribution of 57.8% on job performance of librarians in federal university libraries in North-Central, Nigeria. The study concluded that provision of good conducive working environment, sufficient possession of ICT skills, high quality of ICT facilities and training and re-training of librarians in the aspect of ICT to acquire more ICT skills especially the advanced ICT skills would no doubt enhance their job performance. The study recommended that federal university libraries in North-Central, Nigeria should make their libraries more conducive for both staff and users, organise training and re-training for librarians to acquire more ICT skills especially the advanced ICT skills and more opportunities should be given to librarians to attend conferences, workshops and seminars in the area of ICT.

Keywords: Federal Universities, Influence, Information Communication Technology, Job Performance, Librarians, North-Central, Nigeria.

Introduction

University library can only be successful in performing its expected roles if information resources, facilities and equipment are adequately available, functional and also the quality of its staff as manifested in their job performance. University libraries refer to those libraries established in universities to support and strengthen the academic programmes of such institutions of learning as they contribute to the total development of their users' community by broadening their intellectual horizons and inculcating in them a lasting desire to study and carry out research. Ode and Ode (2018) defined university libraries as those libraries that are established in universities as higher institution of learning to collect, organise, preserve and store information for the use of users such as students, lecturers, researchers and university community.

Librarians perform a wide range of services such as technical, readers', reference, serial and administrative related services in the university libraries. Librarians working in federal university libraries are expected to have adequate ICT knowledge and skills for them to carry out the services effectively. Saidu, Saka and Kur (2020) defined a librarian as one who undergo Library and Information Science (LIS) training in any approved institution of learning and has obtained first or

higher degree in librarianship and perform professional duties such as selection and acquisition. cataloguing and classification, conducting reference services and bibliographic services.

Job performance could be described as what an employee does in work situation and how effectively and efficiently it was done for accomplishment of organisational goals and objectives. Agba et. al. (2013) defined job performance as the task accomplished by individual employee; it is

how well a staff accomplishes a given task in an organisation libraries inclusive.

Information and Communication Technology (ICT) is the coming together of computing. telecommunication and broadcasting technologies to produce information. Example of computing technologies are the computers and its accessories while telecommunication technologies include: telephone, facsimile. fax. e-mail. The broadcasting technologies include: radio, television, video. Odionye (2016) defined Information and Communication Technology (ICT) as a technology that brought tremendous transformation to academic libraries and information services. Such areas of transformation and development occasioned by ICTs in academic libraries include: computing technology, telecommunication technology and mass storage technology. ICT skills could be viewed as the overall competencies (skills, knowledge, attitude and technical know-how) needed to create, save, analyse, organise, retrieve and disseminate digital information such as images, text, sounds and graphics in digital libraries or any type of information. In recent times, work for the information profession has become characterised by fast-paced change and new skills requirements (Seena and Pillai, 2014).

The use of ICT facilities in the university libraries play a very crucial role by enabling library to easily provide the required information to the clienteles. Oriogu et.al. (2014) stated that the use of Information and Communication Technology (ICT) is gaining momentum in university libraries especially now that most universities in Nigeria are adopting ICT in the development and improvement of their services. ICT has provided libraries with new opportunities to improve their resources and services.

Statement of the Problem

The working environment of the library personnel is fast changing which demands new knowledge and skills for them to perform their job effectively and efficiently. For university libraries to achieve maximum productivity in terms of supporting learning, teaching, research and service to host community where the universities are located. University library personnel (Librarians) are expected to perform the statutory functions so as to achieve the set objectives of their university library. Thus, the job performance of librarians in federal university libraries in North-Central, Nigeria was below expectation as Aboyade (2014) found that the job performance of professional librarians in Nigerian federal universities was on low level. Extant literature and researchers' observation have shown that, some librarians in federal university libraries in North-Central, Nigeria found it difficult to cope with the tools of ICTs in library operations which may invariably affects their job performance. Could the challenges be due to lack of conducive working environment, inadequate ICT facilities, insufficient ICT skills, knowledge, abilities and technical known-how by librarians? To proffer solutions to this problem, the researchers therefore, investigated the influence of Information Communication Technology on job performance of librarians in federal university libraries in North-Central, Nigeria.

Research Objectives

The objectives of the study are to:

1. determine the level of job performance of librarians in federal university libraries in North-

2. ascertain the influence of ICT skills possession on job performance of librarians in federal

university libraries in North-Central, Nigeria;

3. determine the influence of use of ICT facilities on job performance of librarians in federal university libraries in North-Central, Nigeria.

Research Questions

The following research questions guided the study:

- 1. What is the level of job performance of librarians in federal university libraries in North-
- 2. What is the influence of ICT skills possession on job performance of librarians in federal university libraries in North-Central, Nigeria?
- 3. What is the influence of use of ICT facilities on job performance of librarians in federal university libraries in North-Central, Nigeria?

Research hypothesis

1. There is no composite effect of ICT skills possession and use of ICT facilities on job performance of librarians in federal university libraries in North-Central, Nigeria.

Ozioko et. al. (2018) conducted a similar study that was guided by three specific objectives. The study adopted a descriptive survey design. The population of the study comprised 94 library staff and 711 library users. The instruments of the study were questionnaire and observation checklist. Descriptive statistical tools such as frequency and mean were used to analysed the collected data. The findings of the showed that various ICT facilities such as network facilities, photocopiers, printers, scanners, local area network among others were available in the libraries; that ICT application are used for different purposes in the libraries; that the extent of ICT application to library services in those libraries is extensively low except few services that are of great extent. The study concluded that provision of adequate technical support and provision of qualitative bandwidth were suggested to enhance maximum application of ICT in the libraries. The study recommended that more ICT facilities should be made available, power supply should be improved and that adequate fund should be provided by the government to the libraries. The present study is similar with this study because the studies are on ICT application in academic libraries.

Okpokwasili (2018) carried out a similar study that was guided by two specific objectives. The study adopted survey research design. The population of the study comprised 542 library staff. The instrument used for the study was a structured questionnaire. Descriptive statistical tools such as: frequency, mean and standard deviation were used to analysed the collected data. From the findings of the study, the study concluded that there is high level of type of library crimes committed in academic libraries and high level of curbing library crimes with ICT in academic libraries in Nigeria. It was recommended that government and concerned authorities should adopt and make available information and communication technologies as means of curbing library crimes in academic libraries in Nigeria and since the traditional methods seems not meeting the security expectations. The present study is similar with this study because the studies are on impact of ICT and both used university libraries in Nigeria as areas of coverage.

ldakwo et. al. (2018) conducted a similar study that was guided by five research questions in line with the objectives of the study. The study adopted survey research design. The population of the study comprised 30 circulation staff of University of Ilorin, Federal University Lokoja and University of Abuja Libraries. The instrument used for the study was a structure questionnaire. Data collected were analysed using simple percentage. Findings of the study revealed that ICTs are utilised in circulation operations in the Federal University Libraries; ICT devices are available for circulation operations in the libraries among others. The study recommended that government should endeavour to provide adequate funds for procurement of ICT facilities for university libraries to enhance automation of circulation operations and university management should engage the circulation staff on continuous ICT training through organised seminars and workshops and among others. The present study is similar with this study because the studies are on application of ICT in library operations and both used university libraries as areas of coverage.

Yisadoko et. al. (2017) carried out a similar study that was guided by six specific objectives. The researchers adopted descriptive survey design. The population of the study was the 200 postgraduate students of Federal University of Technology, Minna. The instrument used for the study was a structured questionnaire. Descriptive statistical tools such as: frequency table and simple percentage were used to analysed the collected data. Findings revealed that ICT facilities were available at a low level. It was recommended that efforts should be made to place a high premium of priority on application of ICTs in the services on university libraries and adequate training and orientation on ICT should be emphasised. The present study is similar with this study because the studies are on influence of ICT on library professionals and both used university libraries as areas of coverage.

Seena and Pillai (2014) conducted a similar study that was guided by three research questions. The study was based on a questionnaire survey of library professionals in the library of the University of Kerala, India. The population of the study consisted of 102 professionals, para-professionals and university administrators. The instrument used for the study was a structured questionnaire. Data collected were analysed using version 23 of MS-Excel for appropriate statistical analysis and description. Findings revealed that lack of training (40.20%) is one of the main constraint in acquiring ICT skills, ICT facilitates quick access to current data (52.94%) and ICT application improves quality of library services (53.92%). The study concluded that the university library needs proper ICT infrastructure and training for the professionals in using the digital resources effectively. It was recommended that libraries should promote ICT awareness to the professionals as well as users by providing short-term courses, in-house training programmes, organising workshops, seminars, conferences and public lectures etc. The present study is similar with this study because the studies are on ICT and both used university libraries as areas of coverage.

Ojiegbe (2010) conducted a similar study that was guided by three research questions. The study adopted descriptive survey design. The population of the study consisted of 136 professional and para-professional staff working in the university libraries. The instrument used for data collection was questionnaire. Mean score and percentages were used in analysing the data collected. Findings from the study revealed that the level of ICT competence among the library staff working in the university libraries were very low. Many of the library staff acquired the competencies they possess through private computer training, personal practice and on the job training. The study concluded that Nigerian Library Association (NLA) and Librarians' Registration Council of Nigeria (LRCN) should take up the mantle of leadership role to educate library heads and set standards of operations for libraries. The National Library's Centre for Advanced and Information Management (CALIM) in Enugu should be properly developed and put to use for competency training of librarians in Nigeria. It was concluded that the two Federal University libraries should dedicate a reasonable percentage of their annual library budget to training, the two Federal Universities libraries should create an internal committee on training that would be responsible for planning training programmes for the library staff and the two Federal Universities must make sure that every library staff have access to the use of the ICT facilities available in the library for practices. The present study is similar with this study because the studies are on ICT competencies of library staff and both used Federal University libraries as areas of coverage.

Methodology

Methodology
This study adopted a descriptive survey research design. Descriptive survey research design was used for this study because data were collected in order to determine the influence of independent variables on dependent variable and the composite effect of the independent variables on dependent variable. The population of the study comprised of eighty-two (82) librarians working in Ibrahim Badamasi Babangida Library: Federal University of Technology, Minna, University of Ilorin

Library and University of Jos Library. The study used simple random sampling technique to select the three universities based on status: two conventional and one specialised for the purpose of generalisation. The entire population was adopted for the study. A close ended structured questionnaire was designed titled "influence of Information Communication Technology (ICT) on job performance of librarians' questionnaire (IICTJPLQ) to capture the level of job performance of librarians, influence of ICT skills possession and influence of use of ICT facilities on job performance of librarians in federal university libraries in North-Central, Nigeria. Research questions were descriptively analysed using total frequencies and median as a measure of central tendency or average with a decision criterion of $fx \ge median = (high or agreed)$ and fx < median = (high or agreed)(low or disagreed). The draft copies of questionnaire were validated by four lecturers in the Department of Library Information Technology and a Statiscian from Department of statistics all from Federal University of Technology, Minna and 30 copies of the modified version were pretested on 30 librarians of Kebbi State University of Science and Technology Library, Aliero, and Abubakar Gimba Library; Ibrahim Badamasi Babangida University Lapai respectively using test re-test method. The selection of these universities was due to the fact that they are State based conventional and specialised universities that are neither part of population, study area nor part of sample. The reliability coefficient of 0.92 was obtained. The figure is above half (1/2), which is an indication that the instrument is excellent and reliable. A total of 82 copies of questionnaire were administered to librarians in the federal university libraries in North-Central, Nigeria. A response rate showed the retuned of 82 copies of the questionnaire representing 100 percent. Research hypothesis was inferentially analysed using multiple regression analysis of variance tested at 0.05 level of significance.

Presentation of Results of Analysis of the Major Variables of the Study

Research Question One: What is the level of job performance of librarians in federal university libraries in North-Central, Nigeria?

Table 1: Response on the level of job performance of librarians in federal university libraries

in North-Central, Nigeria

| S/N | STATEMENTS | | | |
|-----|--|------------------|--------------------------------|----------|
| | STATEMEN 13 | Total | Median | DECISION |
| | Motivation | $F_{\mathbf{X}}$ | M=2025 | |
| | | | | 76. |
| 1 | (Personal Desires and Preference) | | | |
| , | The prompt payment of staff salary encourages industrial | 2189 | $fx \ge M$ | High |
| 2 | harmony and enhance my job performance in the library. | | | |
| - | Regular promotion of staff motivates me to come up with | 2145 | fx≥M | High |
| | new ideas and better ways of doing things in the library | | | 3 |
| 3 | thus enhancing job performance. | | | |
| 3 | The reward system for dedicated staff motivates me to | 2114 | fx≥M | High |
| | make meaningful contributions during meetings in the | | | 511 |
| 4 | library and this enhance job performance. | | | |
| 7 | Career prospects motivate me to work harder and meets | 2205 | fx≥M | High |
| | work deadlines in the library thus enhancing job | | J | riigii |
| | performance. | | | |
| 5 | (Work Environment) | | | |
| 3 | The library working environment is quite conducive for | 934 | fx < M | I |
| 6 | both staff and users and this enhance job performance | | ,/12 - 111 | Low |
| 0 | The requirements needed for promotions in my university | 2007 | fx <m< td=""><td>Law</td></m<> | Law |
| | encourages me to publish more locally and internationally | | JA IVI | Low |
| 7 | uius ennancing job performance. | | | |
| 1 | There is constant provision for acquisition of required skills | 1438 | fx <m< td=""><td></td></m<> | |
| | for library personnel and this enhance job performance. | . 130 | JANIVI | Low |
| | | | | |

| 8 | There is constant electricity | | | |
|----|--|------|---------------------------------|--------|
| | operations in the library working environment and this enhance job performance. | 1749 | fx <m< td=""><td>Low</td></m<> | Low |
| | Skill | | | |
| | (Mental Ability) | | | |
| 9 | Ability to comprehend complex ideas enables me acquire | 1025 | CNA | |
| | The first of the same of the s | 1835 | .fx <m< td=""><td>Low</td></m<> | Low |
| | | | | |
| 10 | My ability to reason quickly facilitates speedy completion of routine duties thus enhancing is a | 1882 | 6NA | Low |
| | | 1002 | .fx <m< td=""><td>LOW</td></m<> | LOW |
| 11 | My donney to really last enables me to and to the | 2004 | 5NA | Low |
| | Joe detter and tills enhance tob performance | 2004 | fx < M | LOW |
| | (I hysical resility) | | | |
| 12 | My ability to move around enables me to acquire ICT skills | 2247 | fx≥M | High |
| | and and office foll Del formance | 2241 | ./X=IVI | riigii |
| 13 | My ability to see properly enables me to accomplete | 2173 | fx≥M | High |
| | and work officelly fills phancing tob mante | 2175 | JAZIVI | riigii |
| 14 | in a differ to fical property enables me to acquire ICT abilla | 2135 | fx≥M | High |
| | and work better and tills enhance tob performance | 2133 | . JA_IVI | 111511 |
| | (Experience) | | | |
| 15 | My years of experience on the job improves my skills and | 1955 | fx <m< td=""><td>Low</td></m<> | Low |
| | abilities to perform my work very well thus enhancing joh | | | |
| | performance. | | | |
| 16 | My experience on daily tasks improves my skills and | 1951 | fx <m< td=""><td>Low</td></m<> | Low |
| | knowledge and this enhance job performance. | | | |
| 17 | Experiences acquired through various in-service training | 2205 | fx≥M | High |
| | attended improves my knowledge to perform any task | | | |
| | assigned to me efficiently thus enhancing job performance. | | | |
| 10 | Facilities | | | |
| 18 | Use of ICT facilities helps me reduce redundant work and | 1749 | $f_X < M$ | Low |
| 10 | this enhance job performance. | | | |
| 19 | Use of ICT facilities improves my competencies to work | 2119 | fx≥M | High |
| 20 | better thus enhancing job performance. | | | |
| 20 | Use of ICT facilities enables me to provide quality library | 2042 | fx≥M | High |
| | services and this enhance job performance. | | | |

Key 1: $fx \ge Median = High Performance$; fx < Median = Low Performance.

The data presented in Table 1 were analysed for level of job performance of librarians. The result on Table 1 showed that the respondents indicated High performance to ten statements out of the twenty items listed on the level of job performance of librarians as frequency scores were greater than or equal to the median score. On the other hand, respondents indicated Low performance to the other ten statements as frequency scores were lower than the median score.

Research Question Two: What is the influence of ICT skills possession on job performance of librarians in federal university libraries in North-Central, Nigeria.

Table 2: Response on the influence of ICT skills possession on job performance of librarians in federal university libraries in North-Central, Nigeria

| 11 | redefar university indiaries in North-Central, Nigeria | | | |
|----|---|-------------|--------------------------------|--------------|
| SI | N STATEMENTS | Tota I | Median | DECISI ON |
| | | $F_{\rm X}$ | M=2194 | |
| | Basic Operation of ICT Hardware Skills | | | |
| 1 | Ability to retrieve documents from storage devices enhance my job performance. | 2238 | fx≥M | High |
| 2 | My ability to save, edit and copy data into secondary storage devices such as: diskettes, flash drive and USB effectively thus enhancing job performance. | 2287 | fx≥M | High |
| 3 | My knowledge of ICT enables me to save, edit and copy data into primary storage device such as: hard disk effectively and this enhance job performance. | 2213 | fx≥M | High |
| 4 | Ability to scan and upload documents efficiently enhance my job performance. | 2236 | fx≥M | High |
| 5 | My knowledge of ICT enables me to type and print documents and this enhance job performance. | 2195 | fx≥M | High |
| | Email Management and Setup Skills | | | |
| 6 | My knowledge of ICT enables me to create an online email account for my colleagues thus enhancing job performance. | 2152 | fx <m< td=""><td>Low</td></m<> | Low |
| 7 | Ability to use e-mail in sending and receiving messages enhance my job performance. | 2282 | fx≥M | High |
| 8 | My knowledge of ICT enables me to attach files, upload and download documents on e-mail environment and this enhance job performance. | 2200 | fx≥M | High |
| | Safe Internet Usage Skills | | | |
| 9 | My ability to open web pages, navigates web links and save favourite web pages enhance job performance. | 1925 | fx <m< td=""><td>Low</td></m<> | Low |
| 10 | My knowledge of ICT enables me to perform online cataloguing and classification thus enhancing job performance. | 2238 | fx≥M | High |
| 11 | My knowledge of ICT enables me to use OPAC/Web OPAC to retrieve bibliographic information and this enhance job performance. | 2235 | fx≥M | High |
| | | | | |

Online Research Skills

Ability to use search Engines such 2229 as: Mamma, AOL. Yahoo, Google in searching for fx≥M High information online enhances my job performance. My knowledge of ICT enables me check for reference sources online and this enhance job 2246 fx>M High performance. My knowledge of ICT enables me collect research 2160 data using Google forms or Survey monkey thus fx < MLow enhancing job performance. Online Communication and Collaboration Skills My knowledge of ICT enables me to use Electronic 2109 fx < MBulletin Boards and this enhance job performance. Low My ability to communicate and hold meetings with fx < MLow others on ZOOM enhances job performance. 17 Ability to share work related files on Dropbox or $f_X < M$ Low Google drive enhances my job performance. My knowledge of ICT enables me to perform High Electronic Documentary Delivery Services and this enhance job performance. Social/Academic Networking Sites Management Skills My knowledge of ICT enables me to perform 2142 fx < MLow Networking activities thus enhancing performance. Ability to search and retrieve research papers on 2203 fx≥M High ResearchGate and Academia.edu. and this enhance my job performance. My knowledge of ICT enables me share my work 2162 fx < MLow findings on Twitter thus enhancing job performance. Ability to reach out and collaborate with other Fx>MHigh colleagues on LinkedIn, ResearchGate enhances my job performance. Document Creation and Retrieval Skills My knowledge of ICT enables me to perform 1974 $f_X < M$ Low Statistical skills such as SPSS to analyse data and this enhance job performance. My knowledge of ICT enables me to use 2048 fx < MLow

Graphics such as: CorelDraw thus enhancing job performance.

- Ability to use spreadsheets to enter numerical value 2181 fx<M Low and text into cells as well as performing calculations using formula enhances my job performance.
- 26 My knowledge of ICT enables me to perform 2191 fx<M Low Presentation skills such as: power point presentation thus enhancing job performance.
- 27 My knowledge of ICT enables me install Software on 2192 fx<M Low a System and this enhance job performance.

Key 1: $fx = \sum (VHI \text{ value*statement value} + HI \text{ value*statement value} + MI \text{ value*statement value} + LI value*statement value}$

Key 2: $fx \ge M$ = High Influence; fx < M = Low Influence.

The data presented in Table 2 were analysed for the influence of ICT skills possession on job performance of librarians. The median (M) of the total score (fx) for each item of the university libraries assessed was used. The criterion for each statement was high if $fx \ge M$ of 2194 (greater than or equal to 2194) and low if fx < M of 2194 (less than 2194). The results on Table 2 showed that the respondents indicated high influence to fourteen statements out of the twenty-seven items listed on the influence of ICT skills possession on job performance of librarians as the $fx \ge M$ of 2194 (greater than or equal to 2194). On the other hand, respondents indicated low influence to the other thirteen statements as the fx < M of 2194 (less than 2194).

Research Question Three: What is the influence of use of ICT facilities on job performance of librarians in federal university libraries in North-Central, Nigeria?

Table 3: Response on the influence of use of ICT facilities on job performance of librarians in

federal university libraries in North-Central, Nigeria **DECISIO** Total Median **STATEMENTS** SI N N M = 193Fx 8 Using ICT facilities in library operations 2161 fx≥M High improves my performance and satisfaction thus enhancing job performance. Use of ICT facilities improves my ability to 2186 $fx \ge M$ High perform digital reference and serial services and this enhance job performance. Using ICT facilities in library operations reduce 2211 fx≥M High my workload to perform tasks better thus enhancing job performance. Using ICTs enables me to provide quality library 2120 fx≥M High services to clienteles and this enhance job performance. Use of ICT facilities make it easy for me to 2022 fx≥M High access current data quickly thus enhancing job

performance.

| 6 | It is easy for me to cope with all situations in my place of work using ICT facilities and this enhance job performance. | 1927 | fx <m< td=""><td>Low</td></m<> | Low |
|----|--|------|--------------------------------|------|
| 7 | I find the technology of ICTs easy to use and update thus enhancing job performance. | 1980 | ,/x≥M | High |
| 8 | ICTs enables me to facilitate easy search and retrieval of information and this enhance job performance. | 1949 | ƒx≥M | High |
| 9 | Library users prefer I should use ICTs to perform online circulation services such as: registration of library users, charging and discharging of library materials and daily statistics records thus enhancing job performance. | 1886 | fx <m< td=""><td>Low</td></m<> | Low |
| 10 | University library helped in the use of ICTs for budgeting provision and this enhance job performance. | 1917 | fx <m< td=""><td>Low</td></m<> | Low |
| 11 | University library believe that I should use ICTs to perform technical services such as: acquisition, classification and cataloguing thus enhancing job performance. | 1818 | fx <m< td=""><td>Low</td></m<> | Low |
| 12 | My university support the use of ICTs to facilitate communication within the institution and this enhance job performance. | 1857 | fx <m< td=""><td>Low</td></m<> | Low |
| 13 | Use of ICTs aid division of labour among library staff for effective service delivery thus enhancing job performance. | 1872 | fx <m< td=""><td>Low</td></m<> | Low |
| 14 | My knowledge of ICTs enables me to effectively disseminate information and this enhance job performance. | 1838 | fx <m< td=""><td>Low</td></m<> | Low |
| | | | | |

Key 1: $fx = \sum$ (VHI value*statement value + HI value*statement value + MI value* statement value + LI value*statement value)

Key 2: $fx \ge Median = High Influence$; fx < Median = Low Influence

The data presented in Table 3 were analysed for the influence of use of ICT facilities on job performance of librarians. The median (M) of the total score (fx) for each item of the university libraries assessed was used. The criterion for each statement was High if $fx \ge Median$ of 1938 (greater than or equal to 1938) and Low if fx < Median of 1938 (less than 1938). The results on Table 3 showed that the respondents indicated high influence to seven statements out of the fourteen items listed on the influence of use of ICT facilities on job performance of librarians. On the other hand, respondents indicated low influence to the other seven statements as the fx < M of 1938 (less than 1938).

Null Hypothesis

The below null hypothesis was tested at 0.05 level of significance.

1. There is no composite effect of ICT skills possession and use of ICT facilities on job performance of librarians in federal university libraries in North-Central, Nigeria.

Table 4: Multiple regression testing analysis on composite effect of ICT skills possession and use of ICT facilities on job performance of librarians in federal university libraries in North-

| R | R Square | | | Adjusted | Std. Error of the | |
|------------|-------------------|----|--------------------|-------------|-------------------|---------|
| | | | | R Square | Es | stimate |
| .760° | .578 | | | .576 | | 34058 |
| | | | ANOVA ^a | | | |
| Model | Sum of Squares | Df | Mean Square | F | Sig. P | Remark |
| Regression | 79.188 | 3 | 26.396 | 227.567 | .000 ^b | Sig. |
| Residual | 57.764 | 79 | .116 | | | |
| Total | 136.952 | 82 | | | | |

a. Dependent Variable: Job Performance

b. Predictors: (Constant), ICT Skills possession and Use of ICT Facilities

Table 4 showed the significant influence of ICT skills possession and use of ICT facilities on job performance of librarians in federal university libraries in North-Central, Nigeria with value of F = 227.567; R = 0.760, R square = 0.578, Adjusted R square = 0.576, P<0.05). With R square equal to 0.578 means that ICT skills possession and use of ICT facilities jointly and significantly has an influence contribution of 57.8% on job performance of librarians in federal university libraries in North-Central, Nigeria, while the remaining 42.2% is influence by other factors. Also, with p<0.05, the null hypothesis was rejected while alternate hypothesis was accepted and restated as "there is composite effect of ICT skills possession and use of ICT facilities on job performance of librarians in federal university libraries in North-Central, Nigeria". This implies that ICT skills possession and use of ICT facilities influence job performance of librarians in federal university libraries in North-Central, Nigeria.

Summary of Findings

Based on the data presentation, analysis and discussions, the following were the summary of findings of the study:

- 1. The level of job performance of librarians in federal university libraries in North-Central, Nigeria is moderate.
- 2. The influence of ICT skills possession on job performance of librarians in federal university libraries in North-Central, Nigeria is high.
- 3. The influence of use of ICT facilities on job performance of librarians in federal university libraries in North-Central, Nigeria is moderate.

Discussion of Findings

Response to research question one sought to find out the level of job performance of librarians in federal university libraries in North-Central, Nigeria. The result showed that level of job

performance of librarians is moderate. The finding is supported by a similar study by Agade et. al. performance is a measure of how effectively library staff carry out their duties or responsibilities in order to accomplish specific and desirable results. This finding does not responsibilities the findings of Aboyade (2014) and Akor (2009) who both reported that job performance of professional librarians in Nigerian federal universities and government-owned universities in North-Central, Nigeria was on a low level. Consequently, this finding does not corroborate the finding of Adeeko et. al. (2017) who reported that the level of job performance of library personnel in universities of Southwest Nigerian is high.

Response to research question two sought to find out the influence of ICT skills possession on job performance of librarians in federal university libraries in North-Central, Nigeria. The result showed that influence of ICT skills on job performance of librarians is high. This is corroborated by the respondents' affirmative responses to the questionnaire items. The finding is supported by a similar study by Seena and Pillai (2014) that, ICT skills are the overall competencies (skills, knowledge, attitude and technical know-how) needed to create, save, analyse, organise, retrieve and disseminate digital information such as images, text, sounds and graphics in digital libraries or any type of information. Consequently, in line with the opinion of Abba (2017), to increase the ICT skills of the information professionals, there is need for continuous training and orientation program. Although computer is becoming popular, still we lack computer literate professionals, many senior and old information professionals do not know how to operate computer effectively. On the other hand, respondents indicated low influence to other thirteen statements as the fx < Median of 2194 (less than 2194). This is in line with the finding of Yisadoko et. al. (2017) who reported that possession of some listed ICT skills by postgraduate students in Nigerian universities is at low extent. Similarly, Ugwuoke (2012) opined that any worker, who is not adequately equipped with ICT skills for operating in the new environment, automatically becomes a misfit.

Response to research question three sought to find out the influence of use of ICT facilities on job performance of librarians in federal university libraries in North-Central, Nigeria. The result showed that the influence of use of ICT facilities on job performance of librarians is moderate. This is corroborated by the respondents' affirmative responses to the questionnaire items. The finding is supported by a similar study by Odionye (2016) that, library personnel now use ICT facilities available in the universities to source for reference materials, online journals as well as send and receive e-mail from within and outside the country. Furthermore, in line with the opinion of Ode and Ode (2018), use of ICT facilities has conceived a great influence on traditional university libraries in the 21st century globally. This is probably why Oladokun and Kolawole (2018) stated that the use of computers prescribe efficiency and saves considerable amount of time, resources and labour. It also speeds up technical processing and information services and has been a means of bringing quality services to library users. This finding corroborate the finding of Ozioko et. al. (2018) who reported that extent of use of ICT to library services in the polytechnic libraries could be said to be minimal.

This study examined the influence of Information Communication Technology (ICT) on job performance of librarians in federal university libraries in North-Central, Nigeria. The concept of university libraries, librarians, job performance and Information Communication Technology (ICT) were highlighted. However, the findings of this study indicates that level of job performance of were highlighted. However, the first possession on job performance of librarians is high librarians is moderate, influence of ICT skills possession on job performance of librarians is high librarians is moderate, influence of ibrarians is high and influence of use of ICT facilities on job performance of librarians is moderate. The study and influence of use of iter tachnary and influence of use of iteration of email management and setup skills, online research skills, online tachnary and iteration of email management and setup skills, online research skills, online tachnary and iteration of email management and setup skills, online tachnary and iteration of email management and setup skills, online tachnary and iteration of email management and setup skills, academic networking sites and iteration of email management and setup skills. concluded that the possession of skills, academic networking sites management skills and communication and collaboration skills of librarians under this study is because the skills and communication and collaboration and retrieval skills of librarians under this study is low and this could be

attributed to the moderate level of job performance and use of ICT facilities on job performance of librarians in federal university libraries in North-Central, Nigeria. Recommendations

The following recommendations were made to proffer solutions to the findings of this study:

Federal university libraries in North-Central, Nigeria should make their working environment more conducive for both staff and users, provide constant avenue for acquisition of required skills and electricity power supply, acquire high quality of ICT facilities and henceforth employ librarians with high mental ability.

2. Federal university libraries in North-Central, Nigeria should train and re-train librarians in the weak aspect of ICT skills possession such as: email management and setup skills, online research skills, online communication and collaboration skills, academic networking sites management skills and document creation and retrieval skills as these would help librarians to improves their competencies for effective service delivery in the university libraries

3. Federal universities management in North-Central, Nigeria should support the use of ICT in the library operations, organise more training for librarians in the area of ICT to enable them acquire the knowledge, skills and abilities that would make them cope with the tools of ICT.

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growth and development of your society.

Total freedom to choice and enjoy the wishes of your heart.

There is sense of security and happiness that you will be doing what you created and

There is a personal sense of satisfaction, accomplishment and fulfillment.

It is an open-ended opportunities and challenges you get out of it what you put

Demonstration of proper skills in setting up a business and the skills of maintaining the

Ways by which a person can become self-reliant through entrepreneurship

Jimoh (2010) in an article mentioned a few but general ways by which an individual can be self-reliant through entrepreneurship. They are as follows:

Develop the spirit of wealth creation and self-employment: Wealth and joy lies in selfemployment, not on salaried jobs e.g. in India the talents have gravitated to the security of salaried jobs in the government where the present as well as the future is

Risk-taking: people take note of a rising star when his coffers are receiving cascades of fortune. Common prudence sees that the continuous RISKS he takes make h i m notable. A man risks has all-may be a small fortune-and success and comes by a few croves should he desire to rise, life at every step demands his risk all at the moment.

Translating of dream and vision into reality: An entrepreneur person is a dreamer who accomplishes his dream through creating, organization and production of

Asinclusive in capacities and skills when you have to earn for yourself, you become part of the social existence that can support an income.

Proper utilization of every difficult situation: A trial or hard circumstances around man is always a period of exploring and discovering human hiding potentials

Developing and creating of school-to-work strategy: This is a strong strategy for allowing young people and students to have practical work experience before students graduate from school. Such strategy as the establishment of school plant, farm, shops and other vocational training or activities

Skills necessary for entrepreneurial venture

Entrepreneurial skills and attributes provide benefits to society, even beyond their application to business activity. Obviously, personal qualities that are relevant to entrepreneurship such as creativity and a spirit of initiative can be useful to everyone in their working responsibilities and in their day-to-day existence. Also the relevant technical and business skills need to be provided to those who choose to be self-employed and or to start their own venture or might do so in the future. - Ojeifo (2013).

The Encarta dictionary (2009), defines skill as ability to do something well or something requiring training to do well: something that requires training and experience to do well, e.g. an art or trade. "Skills are abilities or proficiencies required of a person in a position to plan and execute an action geared at accomplishing some tasks or achieving some goals. Skills are the learned capacity to carry out predetermined tasks with the minimum outlay of time and energy"-Ugwu and Ezeani (2012).

According to Ugwu and Ezeani (2012), information technology and management have become synonymous with librarians and information professionals. For them to key into the dynamism of change, they must strive to improve on their overall skills through the acquisition of various forms of ICT skills and develop entrepreneurial culture and mindset in order to render quality

science can be involved in the production audio visual equipment, catalogue cards, metal shelf, bookstands e.t.c use in library and information centres Information Brokerage and Consultancy Services: Graduates in library and information science can be involved in information brokerage and consultancy service whereby they will be re-packaging information for clients for a fee.

Book selling Business: Graduates in library and information science can be involved in book selling business. With the knowledge of librarianship they are better disposed to serve the various libraries by supplying books to them and as well liaise with management of tertiary institution to sell books to their students.

Operation of Business Centres and Cyber Café Business: Graduates of library science can take the option of running a business centre where computer related activities such as typesetting, computer training, graphic designs and photocopying services amongst others can be carried out. The option of running a cyber café business is also available to him.

Computer Maintenance: This is another option available to graduates in library science. Knowledge of computer maintenance puts the graduate in a position to be self-employed. Nnadozie, Akanwa, and Nnadozie (2013) stated that a lot of career opportunities abound the qualified and versatile library and information science professional at all levels within the library profession. Some of these traditional library positions include acquisitions librarian, abstractor, circulation librarian, serials librarian, reference librarian, indexer, classifier, curator, archivist, and book selling/publishing (Edoka, 1991 Anyanwu, Amadi and Oparaku, 2010)...

Other Career options include;

Teaching/lecturing Printing and/or publishing Book selling/vending Freelance writing Librarianship

Challenges of Entrepreneurship and Job Creation in Nigeria

Some of the challenges have been pointed out by eminent scholars such as Gana (2000), Aiyeduso (2004), Osuala (2010) and they include:

Poor funding by government and non-governmental organizations.

Poor or ineffective planning, supervision information and evaluation of the programme across the board.

Inadequate teaching materials, equipment and infrastructure facilities.

The challenges posed on globalization, information and communication technology (ICT) have effect on curriculum, methodology, facilities, staff and Inadequate qualified teachers and instructors as well as supporting staff at all level.

Inadequate motivation for available teaching and non-teaching staff which affects

staff efficiency, retention, creativity and initiative. Emphasis on theoretical Knowledge rather than practical knowledge due to lack of

entrepreneurship education centre.

High level of corruption and very poor maintenance culture in the system. Poor enabling business environment, access to credit/ loan, infrastructural decay, mass poverty, inflation, technological infraction, political instability and insecurity of lives and properties which hamper economic and business activities.

Strategies for Effective Entrepreneurship and Job Creation in Nigeria The following strategies according to Ayodele (2006) will help to solve the problem of There should be some form of genuine school- work based learning incorporated in some

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