Information Scientist: Towards more Information and Computer Technologist with Special Reference to Role as Network Technologist

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Abstract - **Information Scientist and computer Scientist both are considered as an important computing related post in India and abroad. Information scientist and technologist both are associated with computer operation and information management. Virtually information scientist collect, selects, organize and manage information and content and similar facet. Practically computer scientists are more engaged and responsible for the computer management ranging from computer and information technology infrastructure design and development. Computer scientists are, not so much associated with information and other content. In this paper, various aspects of information scientist have been described like-information scientist, as a profession, role of modern information scientist, computer scientist, and technological integration with information science programme running in Indian universities.**

Keywords - **Computing, Information Scientist, Information, Information Science, Computer Science, Carrier, Management, Information Professional, Technologist**

I. INTRODUCTION

Information scientist is working today as a system administrator in many cases. The term scientist denotes that he/she is a person responsible for solid and healthy scientific works and investigation. An information scientist investigates properties and behavior of information and organizes it with the help of various kinds of tools and technologies Information scientist is also considered as researcher in the field of information science and contemporary academic field- Information Science & Technology (IST) [05]. Information scientist is doing various activities of information and content management apart from computing and technology design and development. Computer scientist

and information scientist both are responsible for same kind of job, but practically the work and scope and periphery of computer scientist is smaller than that of information scientist. Information scientist in India mainly recruited in Indian universities to make healthy and solid information infrastructure and technology [11].

II. OBJECTIVE

Some of the objective for which this research work is under taken are:

- To know basic about information scientist post.

- To identify main differences in between information scientist and computer scientist.

- To know how and why information scientist is today working as technologist.

- To know the general and managerial skill requirement for information scientist.

- To learn why information scientist post or professional required in Indian universities or institutions, apart from government foundation.

III. METHODOLOGIES

To know about latest information and computer scientist first of all we draw an exact picture of information scientist. To know latest roles and duties of information scientist various journal and conference proceedings were considered and used. Information scientist is today working in most of the Indian universities and Research and Development organization. So the questionnaire as a tool was used to make

this literature or research paper. Many job website and job related news paper is also considered for scenario analysis.

IV. Information Scientist Vs. Computer Scientist

As we have already discussed the basic difference between an information scientist and computer scientist [06]. Now let us discuss each facet in comparative manner.

• Information scientist collect, selects, organize and disseminate information directly or indirectly manually or through computer. Where as computer scientist mainly organized information and other content mainly computationally [07].

• Information scientist work periphery is larger than that of computer scientist.

• Information scientist should know basic knowledge about information, knowledge organization, where as for computer scientist we don't need these skills.

• The essential qualification for computer scientist is mainly Degree/Research Degree in Computers Science or Computer Engineer or related subject. On other hand for an information scientist post organization asks information related degree like- Library & Information Science, Mass Communication Degree apart from Computer Science degree.

• Computer Scientist mainly design and develop computer system, hardware, Information Retrieval System, IT Infrastructure where as Information Scientist is responsible for these work and additionally Information design, Information System Design, Information Processing and management and so on[08].

Information Scientist	Computer Scientist
--Key Facet is Information.	--Key Facet is Computer.
--Related to Information.	--Related to Computing.
--Toll-Computer, Database, Information Retrieval System, Server, Indexing, Abstracting and so on.	--Toll- Computer, Hardware and Software.
-- Expert is called as Information Scientist.	--Expert is called as Computer Scientist.
--Educational Degrees- MIS,MSc-Information Science	-- Educational Degrees are MCA, MCM and so on.
--Information Management.	--Computer Management.

Fig. 1 Comparison In between Computer Scientist & Information Scientist.

V. COMPUTER AND INFORMATION ENGINEERING SKILL REQUIREMENT FOR INFORMATION SCIENTIST

Due to advancement of the computing and other technologies, the role of Information Scientist is changing and in most of the cases treated as Information Technologist. Today Information Scientist not only handle the manual Information but also Technology and other Information Fundamentals also so in many cases they are treated as information Engineers [05,08]. The following roles, duties and responsibilities are basically performed by information scientist today

• Established web based and manual information organization
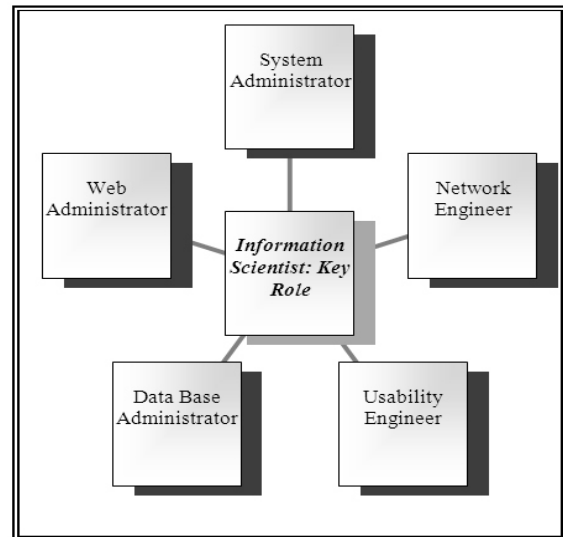
• Design and Development of community information system.

Fig. 2 Key role of an Information Scientist

• Upload and design the website of the concerned organization or information Networks or system.

• Create graphical user interface for sending Information and content especially for the user.

• Design Interactive IRS.

• Use usability engineering fundamentals for healthy Information Centre.

• Create online Database system for institutional repositories.

- Store data content in manual offline database system.

- Create place and repositories for bibliographical database.

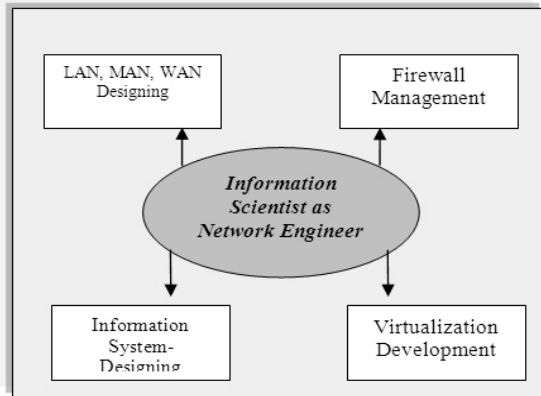- Established healthy information system for IAC, DC, Datacenter.

Fig. 3 Role of Contemporary Information Scientist in Networking

- Distribute information channel.

- To store book, E-book and other document in offline as well as in online mode.

- Create and design touch screen based information

- To create social Networking site for the concerned organization for the Information consortia user.

- To help and design Information Networks and it's subsystems [08,09].

VI. INFORMATION SCIENTIST AS AN INFORMATION MANAGER

Information Scientist today works as a Information Manager and have all the roles which are needed for CEO or MD or any other officer of a company, virtually Information Scientist needs the following qualification :-

• Right and appropriate communication skills are one of the important qualities of Information scenario – as far as today's IT age is concerned.

• As a good communicator he/she should know the basic language as well as some international language.

• He/she should work as a proper information administrator.

• Today's information scientist knows many emerging aspects of management like-MBO, SWOT Analysis and so on.

• Information scientists are using right and correct strategies for proper information management and dissemination.
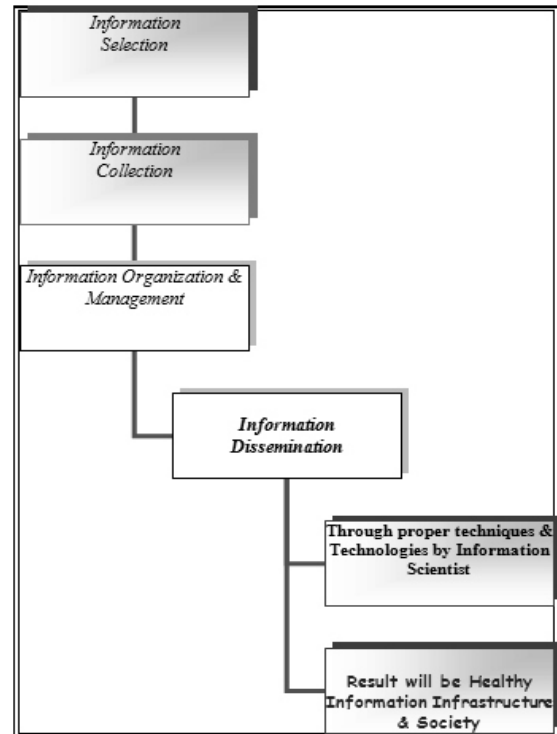

Fig. 4 How indirectly Information Scientist building Information Economy

- Contemporary information scientist is able to join as ERP Expert.

Information scientist is today maintaining multi capacity role and duties.

VII. SUGGESTION

The following suggestion may be helpful.

- Information Scientist should have the both characteristics of an academician and technologist.

- It essential that universities should start Information Science, Information Management, IST and related programmes in their departments/schools/colleges[12].

- The traditional Library Science Curriculum should be changed and renamed as per time need.

- The universities and organization should give importance to recruit Information Scientist rather than conventional Information Manager, Network Manager, System Administrator.

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VIII. FINDINGS

- Still most of the Indian organization is not aware about information scientist designation or post.

- Organization are facing problem during recruitment of information scientist as the nature and job of information scientists are versatile.

- Information scientist and computer scientist synonymously used as same post however we find some differences in between them as far as responsibilities are concerned.

IX. CONCLUSION

Information scientist is one of the key developers for healthy information system and infrastructure. Indian universities, engineering, colleges are needed to recruit information scientist for transparent information transfer cycle with strong computing and technological skills [10,05]. Many of the organization in abroad using job title Computer & Information Scientist or Information & Computer Scientist. So this is a good initiative or symptom. We need organization and universities who shall start academic programme like- Information Science, Information Science & Technology, Information Management and similar programme to become an information scientist or similar post [08].

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