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Big Data in Libraries: Challenn Issues

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Abstract:

The trend of data-fueled research is appearing in all sectors, creating for librarians to collaborate with other disciplines to fill a service gap. I must of information, are adapting to accommodate for the growth of data to data literacy instruction. Academic and research libraries have been interest evolution; This paper started with the introduction and summarized and challenges with big data in Libraries.

Keywords: Big Data, Challenges, Issues, library

Introduction:

Libraries play an important role at the intersections of government research institutes, and the public since they are storing and managing the large amount of data and those data in library need to be transformed the knowledge which then be used by researchers or users. Librarians might have how to transform, analyze, and present data in order to facilitate knowledge example, they should know how to make big datasets more useful. With new and powerful analytics of big data.

"Big data" describes innovative techniques and technologica in a distribute, manage and analyze datasets that traditional data management distribute to handle. The concept of "Big data" was first defined by Lancy in the According to the definition, big data is mainly characterized by three Values

The how big of data could be classified as big data. Therefore, the size of the disciplines. Traditional software usually can handle megabyte and the while big data tools should be able to handle terabyte sized data sets. The refers to the situation where data is created dynamically and fast. The solution of so. The third V, refers to variety, which makes big data sets and an additional type of data collected by researchers or business such as data entered into a spreadsheet with specific rows and columns.

ker in International Data Corporation (IDC)

The includes describe a new generation of technologies and architecture probably extract value from very large volumes of a wild variety of data with capture, discovery and/or analysis" (2011)

blg data as "high-volume, velocity and/or variety information assets the five, innovative forms of information processing that enable enhanced and process automation." This ties to Weinberger's concept of the page be made smart and piled together to meet any specific users need. He and not like catalog cards with more room and an extra forth IQ points.

Luft libraries and Librarians

profination professionals, such as Information Manager. Network manger. In fightator/Trainer/ Innovator and also Frontier of latest technology and apportant role to fill in the future of big data. Librarians have the mindset.

grangement - facilitating use of external datasets

- Data literacy helping users exploit existing data resources which
 faculty about managing research data preparing graduates that
 in employment
- Collection building auditing and appraising data assets

 metadata/cataloging selected dataset
- Digital cura8on capturing, organizing, preserving, and with generated by students and faculty
- Publishing support advising researchers on identifying. (III).

 and demonstrating impact of data
- Policy development consulting stakeholders, drafting and advocacy of take-up and implementation

Emergent Roles of Libraries and Librarians

- Data literacy preparing frontline library staff to respond to purify digital privacy or data profiling + training youth librarians had supported informal learning programs for teens in public librarians.
- Metadata consultancy providing specialized expertise to slipped by municipal government agencies
- Infrastructure development serving as local plajorms for 1992.

 developing data in smaller communities (e.g., hosting data facilitating data deposit) + building, testing, and evaluating customs storing, transferring, and processing Big Data for re-use
- Data protection promoting responsible use of personal datas

Characteristics of Big Data:



The restributed curicultions represent ten different challenges associated with the limiting the data (as capture, cleaning, curation, integration, storage, processing, the storage transfer, mining, analysis, and visualization).

from alle & Challenges for Libraries

The stand collection focused on gathering information about library materials, thing, of service activities. The data were often compiled into library materials, the data were often compiled into library in the data was a way to assess a library's resources and performance. In recent the data are accountability to various stakeholders. Academic libraries have been determined leading part in this movement as well. The libraries have developed determined tools and methods and expanded our data collection to include data (interviews, chat transcripts, etc.), social engagement data developed and Research Libraries, 2010). Furthermore, the rise of Big Data data collection tasks easier and faster; it also has enabled libraries to move to profiting and compiling statistical measures and to engage in complex data descending analytics (Cox & Jantti, 2012) and research performance analysis

Praries and data centers opportunities

Lawer barriers to researches to make their data available integrate data sets into retrieval services

Support of persistent identifiers

Engage in developing common meta-description schemas and

Eliation practices

Promote use of common standards and tools among researchers support crosslink's between publication and datasets

Provide and help researchers understand meta-description of datasets Batablish and maintain a knowledge base about data and their context Gurate and Preserve datasets

Archive software needed for re-analysis of data

Be transparent about conditions under which data sets can be re-used (gapert knowledge needed, software needed)

	Engage in establishing uniform data citation standards
Citability	Support and promote persistent identifiers
*	Transparency about curation of submitted data
	Promote good data management practice
Curation	Collaborate with data creators
/Preservation	Instruct researchers on discipline specific best practices
	creation
×	(preservation formats, documentation experiment)

Issues with Big Data in Library

There are some issues which are common to library big data research as listed library

A. Lacking of Data Scientists

According to studies. USA might not be able to fill half of the positions of scientists and data managers by 2018. The situation in library might be same. The kingle is that data analysts need not only the skills of statistics and computer science, but also of domain knowledge and collaboration ability. Therefore, the challenges faced by him are the ability to manage the information of big data. It seems that short-course training to not be sufficient.

B. Ability of Adopting Big Data

Big data comes in various fields. However, a lot of companies are not result.

According to the study, more than half of organizations could not handle the full currently due to lack of personnel and platform. Research of library big data is even slower than that in other disciplines. The key reason is that the digital libraries tend in libraries and they try to stay back from new technology.

C. Budget Issues

Although more and more people understand the great benefit of using the analysis, the IT investment such as analytics servers, high-performance computing and needed. Majority of US government organizations have not had plan for investment data mainly due to budgetary issue. It seems that most of library administrations have placed big data on the table because of shrinking budgets as well Research data manager projects are paid less attention due to the challenge of human resources. Moreover, a research data which were produced ten year ago is still analogue, such as the latest

The bology research or geology work. Digitizing these resources is not a simple with need a lot of time and personnel resource.

in Cechnical Challenges

this data involves techniques such as capturing, storing, processing and presenting Daw in the library have different types and might be in various statues. Some data might Thus for digitalization. For geological data, data capturing often face challenge. For the digitalizing field trip notes and geological maps is still an issue. On the other hand, and the state of the contains some dirty or false data. Therefore, correctly removing those some work. Due to heterogeneous types and formats of research data, integrating Discounce a very tough job. For example, the challenge of integrating earth science data is but in geological library, since data across multiple disciplines (geology, geography, and hydrology) has been collected, managed, and documented in very different Many types of research data are considerably less usable when they are in their raw than after they have had filters or algorithms or other processing performed on them. work need budget to build tools and provide other supports as well.

C. Privacy

Big data is mining the data and discovering knowledge. There should be a privacy On the other hand, new risks of system intrusions might arise due to the accessibility of amount of data. Data security issues have not been well considered for library big data

F. Big Data Not for all Organizations

It is clear that the organizations that plan to use big data need to have a relative large and personnel. Therefore, small library without enough budget apport might need to share the resource with other organizations. On the other hand, big data plative new and traditional analytic approach still dominates majority of organizations. an regards to the individual research data. small library might not have enough resource to apport direct interaction with research faculty. Therefore, it might be hard to integrate all the has from all researchers in the organization.

unclusion:

Big data has its own importance in the world of technology. Day by day than data is used and generated by libraries. It is largely the librarians' role to create and provide data management services that meet this new grant specification entered into the data lifecycle by taking on the task of housing and the generated from student and faculty research projects in data repositorists.

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