



Library and Research Ecosystem Management Framework and Advocacy

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Data Visualization and Its Application in Academic Libraries

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ABSTRACT

Data visualization technology combines the process of analyzing any dataset with the visualization of the information in graphical form. Academic libraries should use this technology because it assists libraries in a variety of ways, from decision-making to research support. Data visualization technology has a bright future because a plethora of such tools are already available to visualize various types of data in the most appropriate way desired by users. As a result, this study presents a variety of data visualization techniques and tools for improving the quality of library services. This chapter also assists academic library professionals, data analysts, and researchers in selecting the appropriate data visualization tools for their information services and various data visualization tool factors for academic libraries to consider when providing research support to their users.

Keywords: Academic Libraries, Data, Data Visualization, Data Visualization Technology

Library and Research Ecosystem Management Framework and Advocacy

The libraries of the developing nations are faced with a serious crisis of establishing their identity. This is due to a lack of interpersonal relationships among the users, library partners, and informed citizens. While many developed nations have brought libraries to the forefront of their nation's activities, developing nations, especially India, need to develop an advocacy model based on best practices that are indigenous to their cultural, social, and economic conditions. The content in this edited book focuses on various problems, issues, and best practices for academic library advocacy, advocating for better use of library services, better inflow of finances, better infrastructure, and better faculty status, as well as advocating for transforming academic libraries into e-environments. It is presumed that change can have a huge impact leading to catastrophic results or small and incremental results; change can be predictable or unpredictable; change can have a positive or negative impact; it can be productive or unproductive; it will impact small adjustments in one's life or can collapse one's world; last but not least, it can be easily managed or can be stressful. The theme has been introduced with a view to understanding the challenges and opportunities of organizational change, the team approach to handling change, and applying change management strategies. The edited book has a brilliant approach towards empowering staff to meet the challenges, professional leadership and development, and new models of academic library governance; success stories of deliveries, exchange of ideas on how to work together in the future. The book would be able to provide solutions for the challenges in managing academic libraries with discussions on various government and institutional policies on infrastructure, access control, resource sharing, and resource development and management; and the role of libraries and librarians in institutional ranking. While research output is one of the parameters for measuring the reputation of any university, academic institutions always work on improving their research output. Accreditation agencies give significant weightage to research for ranking institutions. Academic libraries are undergoing a paradigm shift to revamp their services, keeping in view the changing research landscape and varied methods in multidisciplinary research. Consequently, libraries have been repositioning themselves to this situation and extending possible research support services addressing the information-seeking of readers. Therefore, technologists, librarians, information scientists, and academicians should collaborate to make the available information resources more user-friendly and properly organize them according to international standards for efficient and effective use. The present edited book has been successful in providing scholarly information to discuss the emerging issues on research support services, machine learning in research support services, publishing, research data management, open access resources, sustainable models, institutional repositories, data repositories, massive open online courses, and research and development activities, etc.



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