

SYNERGY FOR INSIGHT LIBRARIES AS INTERDISCIPLINARY HUBS FOR SOCIAL SCIENCES IN THE DIGITAL AGE

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Abstract :

The digital transformation of higher education has altered the role of academic libraries from repositories of printed knowledge to dynamic environments for research, collaboration, data interpretation, digital scholarship, and knowledge creation. Within the social sciences, this transformation is particularly significant because contemporary research increasingly crosses disciplinary boundaries and combines qualitative evidence, quantitative datasets, digital archives, computational methods, geospatial information, audiovisual materials, and emerging artificial-intelligence tools. This article proposes the concept of the Insight Library as an interdisciplinary hub designed not merely to provide access to information but to facilitate the transformation of information into contextualized, ethical, and research-based insight. The article examines how synergy among librarians, social scientists, data specialists, digital-humanities practitioners, information technologists, students, and community stakeholders can reposition the library as an intellectual and methodological centre for interdisciplinary social-science research. At the same time, challenges involving digital inequality, data privacy, algorithmic bias, intellectual-property restrictions, staff competencies, infrastructure, and institutional culture must be addressed. The article concludes with a proposed model for implementing Insight Libraries in universities and research institutions, particularly within the social sciences.

Keywords : Insight Library, academic libraries, interdisciplinary research, social sciences, digital scholarship, digital humanities, research data, knowledge synergy, information literacy, artificial intelligence.

Introduction :

The academic library has historically been associated with the collection, organization, preservation, and dissemination of knowledge. The rapid development of digital technologies, however, has substantially changed the environment in which scholarly knowledge is produced and consumed. Researchers now work with electronic journals, institutional repositories, research datasets, digitized archives, social-media data, geographic information systems, computational tools, digital collections, multimedia sources, and artificial-intelligence systems. Consequently, the contemporary library can no longer be



understood exclusively as a place where researchers retrieve information. It increasingly functions as an environment in which information is interpreted, connected, transformed, preserved, and communicated.

This transformation is especially important for the social sciences. Questions concerning migration, inequality, political participation, education, public health, culture, employment, urbanisation, digital citizenship, social movements, and technological change rarely fit neatly within a single academic discipline. A contemporary research problem may require sociology to work with economics, political science to engage with data science, geography to collaborate with anthropology, or education researchers to use computational and information-science methods.

Existing digital research centres demonstrate the value of such interdisciplinary environments. For example, the Digital Humanities Research Hub at the University of London brings together researchers from humanities disciplines and technical backgrounds while providing digital methods, infrastructure, training, and collaborative research support.

The central argument is that the future social-science library should not simply ask, “How can researchers find information?” It should also ask, “How can researchers connect information, evaluate evidence, interpret data, collaborate across disciplines, and produce responsible knowledge?”

Conceptualising the Insight Library :

The term Insight Library is used in this article as a conceptual model rather than as a claim that all contemporary academic libraries already operate under this formal designation.

An Insight Library can be defined as: An interdisciplinary research environment in which library collections, human expertise, digital technologies, methodological support, and collaborative networks interact to convert diverse information resources into contextualised and ethically responsible research insight.

This definition expands the conventional understanding of librarianship in three ways.

First, the library becomes an active participant in research rather than a passive provider of resources. Librarians and research specialists can contribute to research design, data discovery, metadata development, digital preservation, information evaluation, systematic searching, research-data management, and scholarly communication.

Second, the library becomes a boundary-crossing environment. Instead of organising research support exclusively around academic departments, an Insight Library can organise expertise around research problems.

Third, the library becomes an environment for knowledge synthesis. Access to thousands of resources does not automatically produce understanding. Researchers require the ability to evaluate sources, identify relationships, recognise methodological limitations, and construct defensible interpretations. The Insight Library therefore focuses on the



movement from information → evidence → interpretation → insight → knowledge.

The Digital Transformation of Social-Science Research :

Digitalisation has expanded both the opportunities and complexity of social-science research. Researchers increasingly encounter large and heterogeneous bodies of information. These may include census data, government records, social-media content, digitised newspapers, survey datasets, interview transcripts, audiovisual archives, geospatial information, institutional records, and born-digital materials.

Digital-humanities research provides an important precedent. Research on the library's role in digital humanities has identified a strong relationship between library and information studies and the collection, organisation, preservation, and use of digital materials. Academic libraries have increasingly become hubs supporting digital research activities.

Similarly, research on digital humanities centres suggests that interdisciplinary knowledge transfer is facilitated through a combination of organisational structures, personal networks, physical interaction, and online communication. (Digital Humanities Alliance)

These developments indicate that the library can serve as an institutional bridge between disciplinary knowledge and digital research practices.

Interdisciplinary and the Need for Synergy :

Interdisciplinary should not be understood simply as placing researchers from different disciplines in the same room. Genuine interdisciplinary requires mechanisms through which different forms of knowledge can interact.

For example, a social scientist may approach a research question through theory and empirical observation, while a data scientist may approach it through modelling and computation. A librarian may contribute expertise concerning information discovery, provenance, metadata, copyright, and preservation. A community researcher may provide contextual knowledge that is absent from formal datasets. The value emerges when these forms of expertise are connected.

The Insight Library therefore depends upon synergy, understood as the additional value produced when different forms of expertise and infrastructure work together rather than independently.

A useful conceptual representation is:

Insight = Information + Expertise + Method + Technology + Context + Collaboration

The equation is conceptual rather than mathematical. Its purpose is to demonstrate that information alone is insufficient for sophisticated interdisciplinary research.

Five Dimensions of Insight-Library Synergy :

1. Resource Synergy :



Resource synergy involves bringing together diverse information resources and making them discoverable across disciplinary boundaries.

Traditional library organisation often mirrors disciplinary structures. Social-science researchers may therefore search separately for books, journals, statistical datasets, government documents, archives, maps, and multimedia materials.

An Insight Library can create integrated discovery environments in which different types of resources are connected around research questions. Metadata, linked-data approaches, institutional repositories, digital archives, research-data repositories, and open-access resources can help researchers identify relationships between otherwise separated collections.

This is particularly important for interdisciplinary research because the most useful evidence may not appear in the conventional literature of a researcher's own discipline.

2. Expertise Synergy :

Information resources become more valuable when users can access appropriate expertise. An Insight Library could therefore include librarians with specialised knowledge in areas such as:

- social-science information resources;
- research-data management;
- systematic and evidence-based searching;
- bibliometrics and research evaluation;
- digital preservation;
- GIS and spatial research;
- qualitative-data management;
- text and data mining;
- open research;
- copyright and intellectual property;
- research ethics and responsible information use;
- Artificial-intelligence literacy.

The role of the librarian consequently develops from information intermediary toward research collaborator. (Reading Research)

3. Technological Synergy :

The digital library of the future requires more than electronic databases. An Insight Library may integrate:

- high-performance computing access;
- data visualisation facilities;
- GIS platforms;



- digital-archive tools;
- text-analysis software;
- repository infrastructure;
- research-data management systems;
- collaborative platforms;
- digital preservation technologies;
- artificial-intelligence tools;
- virtual and augmented reality environments where appropriate.
- Technology should, however, remain subordinate to research questions.

The objective is not to create a technologically impressive library but to create an environment in which appropriate technologies can help researchers answer meaningful questions. (Humanities).

4. Methodological Synergy :

Interdisciplinary research often fails when researchers attempt to combine datasets or methods without understanding their epistemological differences. An Insight Library can therefore function as a methodological meeting point. Workshop and consultations could connect :

Qualitative methods + quantitative methods + computational methods + digital methods + critical theory

5. Social Synergy :

The final dimension is social. Research is not simply an individual activity. Intellectual innovation often emerges from interaction between people with different experiences, disciplinary assumptions, and methodological traditions. Insight Libraries can create spaces for:

- interdisciplinary research groups;
- research clinics;
- data cafés;
- digital-methods workshops;
- reading groups;
- research showcases;
- postgraduate communities;
- librarian–faculty partnerships;
- community-engaged research;
- visiting-scholar programmes;
- collaborative project development.

The Insight Library as a Hub for Social Sciences :

The social sciences are particularly well suited to the Insight Library model because



social phenomena are multidimensional. Consider the research problem of urban inequality. A researcher might need:

- demographic statistics from economics or public administration;
- maps and spatial datasets from geography;
- ethnographic evidence from anthropology;
- theories of inequality from sociology;
- historical records from archives;
- policy documents from government sources;
- computational analysis for large datasets;
- visualisation tools for communicating findings.
- No single discipline can provide all these resources.

An Insight Library can act as the connecting infrastructure.

This principle is already visible in interdisciplinary university centres. The Centre for Digital Humanities and Social Sciences at the University of Liverpool, for example, brings together fields including data science, engineering, sociology, communications, geography, heritage, linguistics, and information studies to investigate digital technologies and their social consequences. (Humanities)

Artificial Intelligence and the Emerging Role of Insight Libraries :

AI systems can assist researchers with information discovery, classification, summarisation, translation, coding, data analysis, transcription, and pattern identification. Yet AI-generated outputs can contain factual errors, fabricated references, hidden assumptions, biased classifications, or inappropriate interpretations.

Consequently, information literacy must evolve into AI and algorithmic literacy. The Insight Library can support responsible AI use by teaching researchers to :

- verify AI-generated claims;
- trace information to reliable sources;
- identify synthetic or manipulated content;
- understand dataset limitations;
- recognise algorithmic bias;
- protect confidential and sensitive research data;
- document AI-assisted research processes;
- distinguish human interpretation from machine-generated outputs.

Recent developments in digital research centres demonstrate that responsible AI is becoming part of the institutional research-support agenda. The University of London's Digital Humanities Research Hub, for example, has been involved in responsible-AI education in cultural heritage. (Advanced Study London)

Equity, Inclusion, and the Digital Divide :



The digital age does not automatically create equal access to knowledge. Researchers may differ considerably in their access to high-speed internet, computing resources, paid databases, software, research training, and specialist expertise. Students and scholars from less-resourced institutions can therefore face structural disadvantages.

This requires:

- accessible digital platforms;
- open educational resources;
- open-access publishing support;
- training for researchers with different levels of digital competence;
- assistive technologies;
- equitable access to software and research infrastructure;
- multilingual resources where appropriate;
- support for researchers from underrepresented communities. (Humanities)

Ethical Challenges :

The development of Insight Libraries should not be based on technological optimism alone.

1. Data Privacy :

Social-science research can involve personal, behavioural, health, political, or location-related information. Libraries supporting research-data workflows must therefore promote responsible data management and privacy protection.

2. Algorithmic Bias :

Digital tools may reproduce biases embedded in training data, classification systems, or historical collections. Researchers must therefore critically examine both datasets and analytical technologies.

3. Intellectual Property :

Digitisation does not automatically eliminate copyright restrictions. Libraries need expertise concerning licensing, fair dealing or fair use where applicable, permissions, and responsible reuse.

4. Digital Preservation :

Digital information is vulnerable to technological obsolescence, format changes, platform dependency, and organisational discontinuity. Long-term preservation must therefore be treated as a research responsibility rather than merely a technical problem.

Proposed Institutional Model :

A university seeking to establish an Insight Library could adopt a four-layer structure.



Layer 1 : Collections and Infrastructure

This layer provides :

- electronic resources;
- books and journals;
- research datasets;
- digital archives;
- institutional repositories;
- digitisation facilities;
- data-management infrastructure.

Layer 2 : Research Expertise

This layer provides :

- specialist librarians;
- data specialists;
- digital-humanities practitioners;
- GIS specialists;
- research software expertise;
- scholarly-communication specialists;
- information-literacy educators.

Layer 3 : Collaboration

This layer establishes :

- interdisciplinary research groups;
- research clinics;
- workshops;
- fellowships;
- project incubators;
- postgraduate communities;
- Partnerships with academic departments.

Layer 4 : Insight and Impact

The final layer focuses on:

- knowledge synthesis;
- research communication;
- public scholarship;
- policy engagement;
- community participation;
- open research;



- research impact.

The four layers can be represented as:

Collections → Expertise → Collaboration → Insight and Impact

Phase 1: Institutional Mapping

The university should identify existing expertise across the library, social-science departments, computing units, archives, research offices, and digital-research centres.

Phase 2: Pilot Research Hub

A small interdisciplinary pilot can be established around a significant research theme such as:

- digital society;
- migration;
- climate and society;
- public policy;
- inequality;
- urban transformation;
- Education and technology.

Phase 3: Skills Development

Library professionals should receive continuing training in digital methods, data literacy, research software, AI literacy, and interdisciplinary research practices.

Phase 4: Research Incubation

The library can offer small grants, fellowships, consultations, and project-development sessions to encourage researchers from different disciplines to collaborate.

Phase 5: Evaluation

Success should not be measured solely through library footfall or database usage. Evaluation should also consider:

- Interdisciplinary projects initiated;
- Research collaborations created;
- Datasets supported;
- Workshops delivered;
- Postgraduate researchers trained;
- Open research outputs;
- External research funding generated;
- Community or policy engagement;
- Researcher satisfaction.



Implications for Indian Higher Education :

The Insight Library model has particular relevance for Indian universities because the country's higher-education system encompasses institutions with highly diverse levels of technological infrastructure and research capacity.

Universities can use library-based interdisciplinary hubs to connect social-science researchers with digital resources and technical expertise without requiring every department to independently develop expensive infrastructure.

The model also has potential for regional and community-focused research. Indian social-science scholarship often involves multilingual materials, local histories, community knowledge, government records, field research, and culturally specific evidence. Digital library initiatives can help preserve and connect these resources while maintaining appropriate ethical safeguards.

An interdisciplinary orientation is already visible in Indian higher-education initiatives. For example, the Centre for Social Sciences and Humanities at Savitribai Phule Pune University describes itself as a platform for interdisciplinary research, intellectual-resource development, source materials, and related research infrastructure. (Savitribai Phule Pune University)

The next step is to connect such interdisciplinary intellectual environments more systematically with digital-library infrastructure, research-data services, computational methods, and scholarly communication.

Conclusion :

The academic library is entering a period in which its greatest value may no longer lie solely in the quantity of information it stores or provides. Its strategic value increasingly lies in its capacity to connect information with people, methods, technologies, and intellectual contexts.

The Insight Library offers a conceptual response to this challenge. It positions the library as an interdisciplinary hub where collections, professional knowledge, digital technologies, research methodologies, and scholarly communities interact. Its purpose is not simply to provide information but to facilitate the transformation of information into responsible and meaningful insight.

The central proposition of this article is therefore that the future-ready social-science library should operate as research infrastructure, collaboration infrastructure, and knowledge infrastructure simultaneously.

Synergy is the foundation of this model. Librarians contribute information expertise; social scientists contribute theoretical and contextual understanding; technologists contribute computational capabilities; data specialists contribute analytical skills; archivists contribute historical and preservation expertise; and communities contribute lived knowledge. When



these forms of expertise are brought together within an institutionally supported environment, the library can become more than a repository.

It can become a hub for interdisciplinary discovery, critical inquiry, digital scholarship, and socially meaningful knowledge production.

The digital age therefore does not diminish the importance of the academic library. It provides an opportunity to redefine what a library can be.

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