

# From Information Use to Information Responsibility: Digital Literacy and Ethics

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# In this session....

- The Changing Role of Libraries in the Modern Era
- **Digital Literacy Competencies for Librarians**
- Information Ethics in the Digital Age
- Ethical Use of Artificial Intelligence in Research and Learning

# Libraries are....

- Storehouses of books
- The libraries are temple of Knowledge.
- Libraries act as cradles of heritage
- Libraries act as vital cultural ambassadors





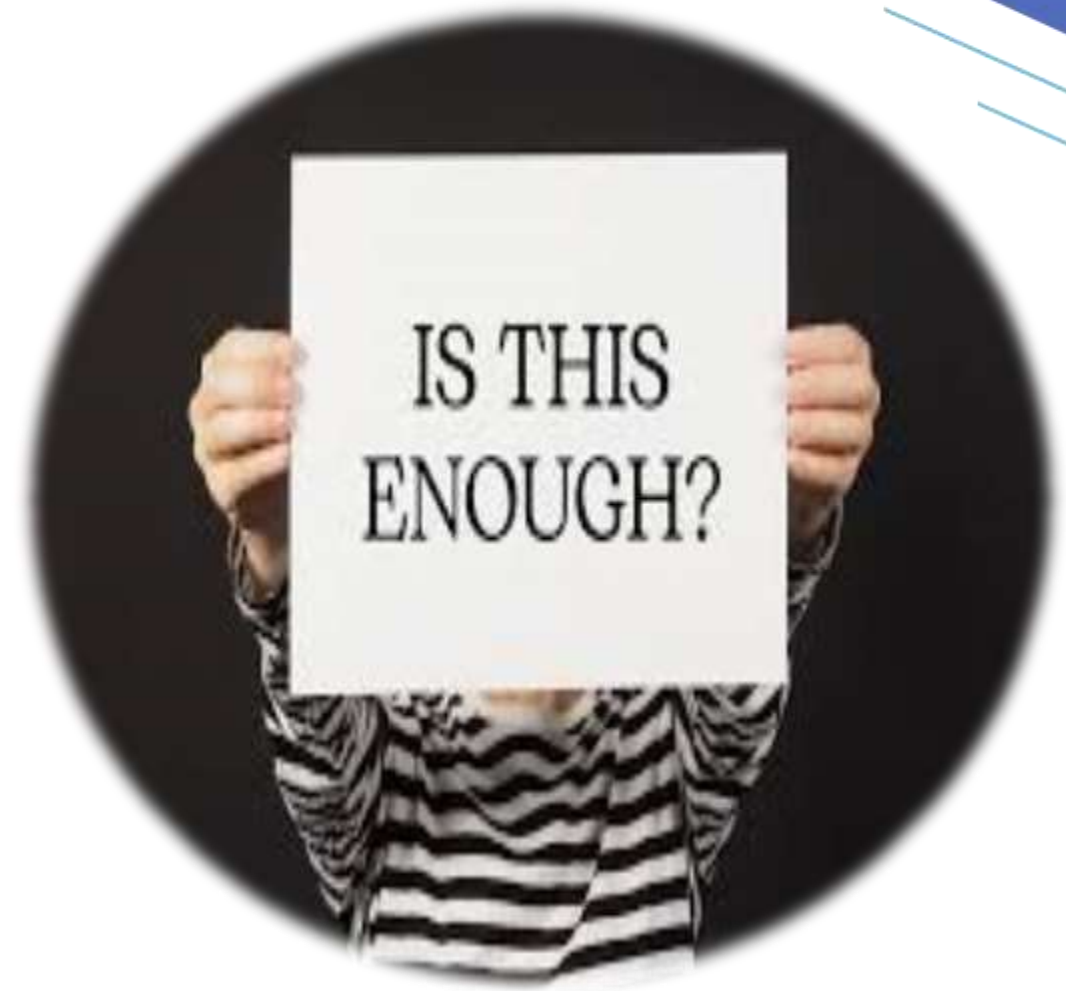
## **Library: From the Perspective of Dr. S. R. Ranganathan?**

- Libraries are not mere storehouses!
- They are rich springs from which knowledge flows out to irrigate the wide field of education and culture.

# Paradigm shift From Knowledge Centers to Knowledge Creators

As a knowledge centre

- Document Delivery service
- Current Awareness Service
- Selective Dissemination of Information
- Inter Library loan
- News Clipping Service
- Reference Service





# Libraries must be Knowledge Creators: The Need of the Hour

- Promote a **strong research culture** among faculty members
- Train faculty in **academic writing and scholarly publishing**
- Guide faculty on selecting **appropriate and credible scholarly journals**
- Encourage the **effective and Ethical use of AI tools** in research

**Information use to information responsibility**

# Lesson from the hospital management



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**IS YOUR RESEARCH**  
PUBLISHED IN A  
**CREDIBLE**  
**SCHOLARLY JOURNAL?**

**PEER REVIEWED** **CREDIBLE** **WIDELY ACCESSIBLE**




**PUBLISH YOUR RESEARCH MAKE AN IMPACT**

Put few placards in the library

Preeti Kidney Hospital  
KPHS | BHEL | KONDAPUR | SUCHITEL  
Hyderabad, India

# ARE YOUR KIDNEY HEALTHY?


## Key Tests to Know





**Dr. G Soundarya**  
MS, MCh, Urology  
CONSULTANT

preethospital.com





# DON'T HAVE MORE CITATION EVER AFTER MANY YEARS?



DON'T LET YOUR RESEARCH BE IGNORED. **PUBLISH RIGHT. GET CITED.**



★ GOOD RESEARCH DESERVES TO BE SEEN. MAKE IT COUNT! ★

 CHOOSE THE RIGHT JOURNAL	 PUBLISH QUALITY WORK	 INCREASE VISIBILITY	 EARN MORE CITATIONS
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**PUBLISH TODAY. BE CITED TOMORROW.**

# Have you explored these options?

- How to avoid publishing in predatory journals: For guidance, please contact the library.
- Do you wish to increase your citation count? Contact the librarian for support.
- Concerned about your research visibility? Consult your librarian.

 **CONCERNED ABOUT**  
**YOUR**

**RESEARCH**  
**VISIBILITY?**



**CONSULT YOUR**  
**LIBRARIAN.**

Edit



Your research deserves to be seen.



We can help!





**AVOID**  
**PUBLISHING IN**  
**PREDATORY**  
**JOURNALS.**



For guidance,  
please contact **THE LIBRARY.**

Edit




Be Informed. Be Ethical. Be Credible.



*Want to*  
**INCREASE**  
**YOUR**  
**CITATION**  
**COUNT?**



**CONTACT THE LIBRARY**  
*for support.*

 Better Research.

 Greater Impact.

 Stronger Citations.

# Knowledge Creators: The Need of the Hour

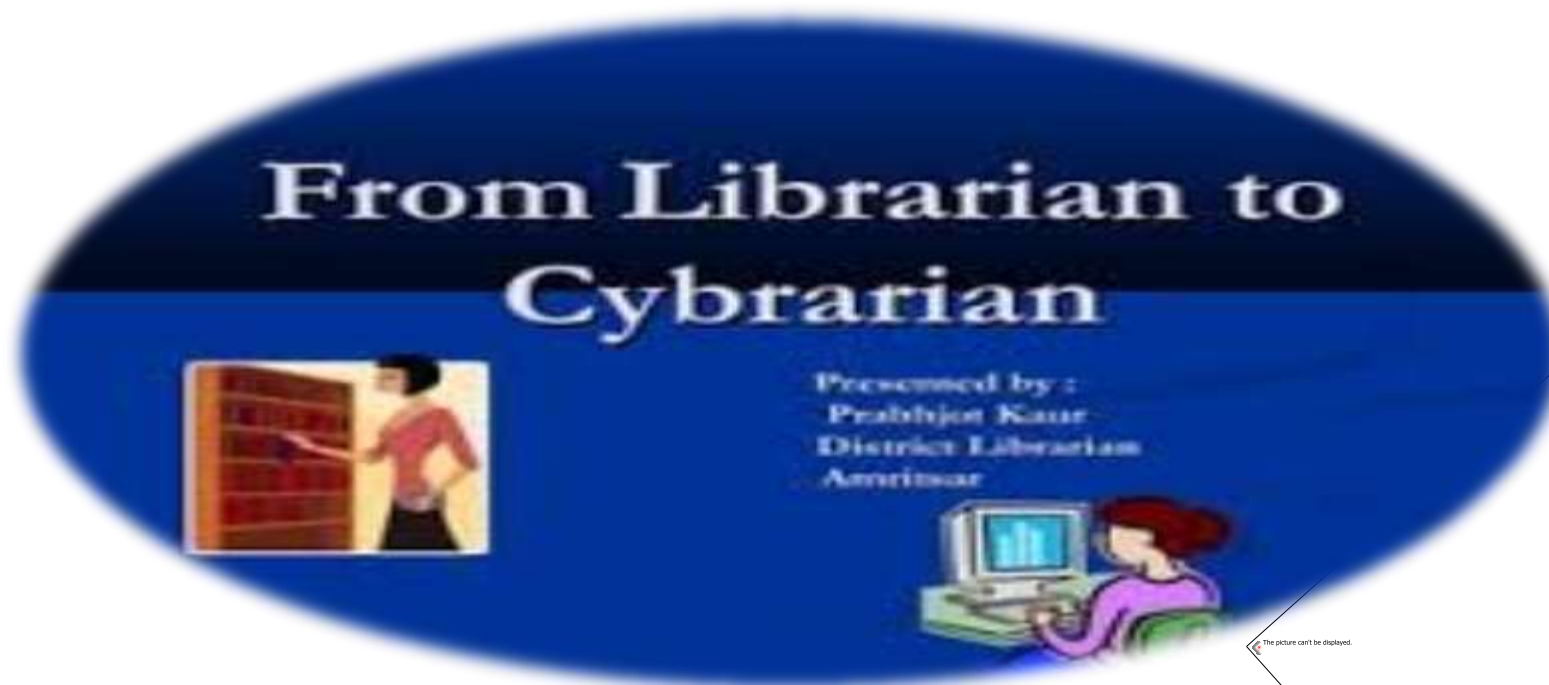
- Educate academics on **research ethics and academic integrity**
- Create awareness about **research metrics** (e.g., citation impact, h-index, indexing databases)
- Enhance **research visibility** through platforms like ResearchGate, Google Scholar,

# Why should the Library Be a Centre of Knowledge Creation?

- To achieve a **higher grade** in National Assessment and Accreditation Council (NAAC)
- To secure an **improved ranking** in National Institutional Ranking Framework (NIRF)
- To enhance opportunities for obtaining **financial support** from various funding agencies

# What is the new role of librarians/Cybrarians?

- Need to move from **Information Use to Information Responsibility**
- Need to possess **Digital Literacy skills**
- Need to educate the academics on Research **Ethics**



# Change is the order of day...Nokia CEO

- If you don't change, you won't survive.
- The Nokia story is not a tragedy; it's a cautionary tale.
- **Dinosaurs** became vanished, but the **chameleon** survived.
- Because the chameleon has the power to change color according to the environment.
- Only the strong survive, only the smart survive is myth.
- Bit, it is true that only those **who respond quickly to change** only survive...



# Then and Now: The Changing Face of Libraries

- Moved from "Shelves to Screens"
- Traditional library to smart library
- Physical place to digital space
- Turning Pages to Pixels
- Library to Cyber library
- Librarian to Cybrarian





# What is a Cyber library?

**Cyber library** is a digital resource that replaces a traditional hard copy **library**.

- Web site
- Database
- Archives
- E-resources
  - E-books
  - E-journals
  - E-reference sources etc.

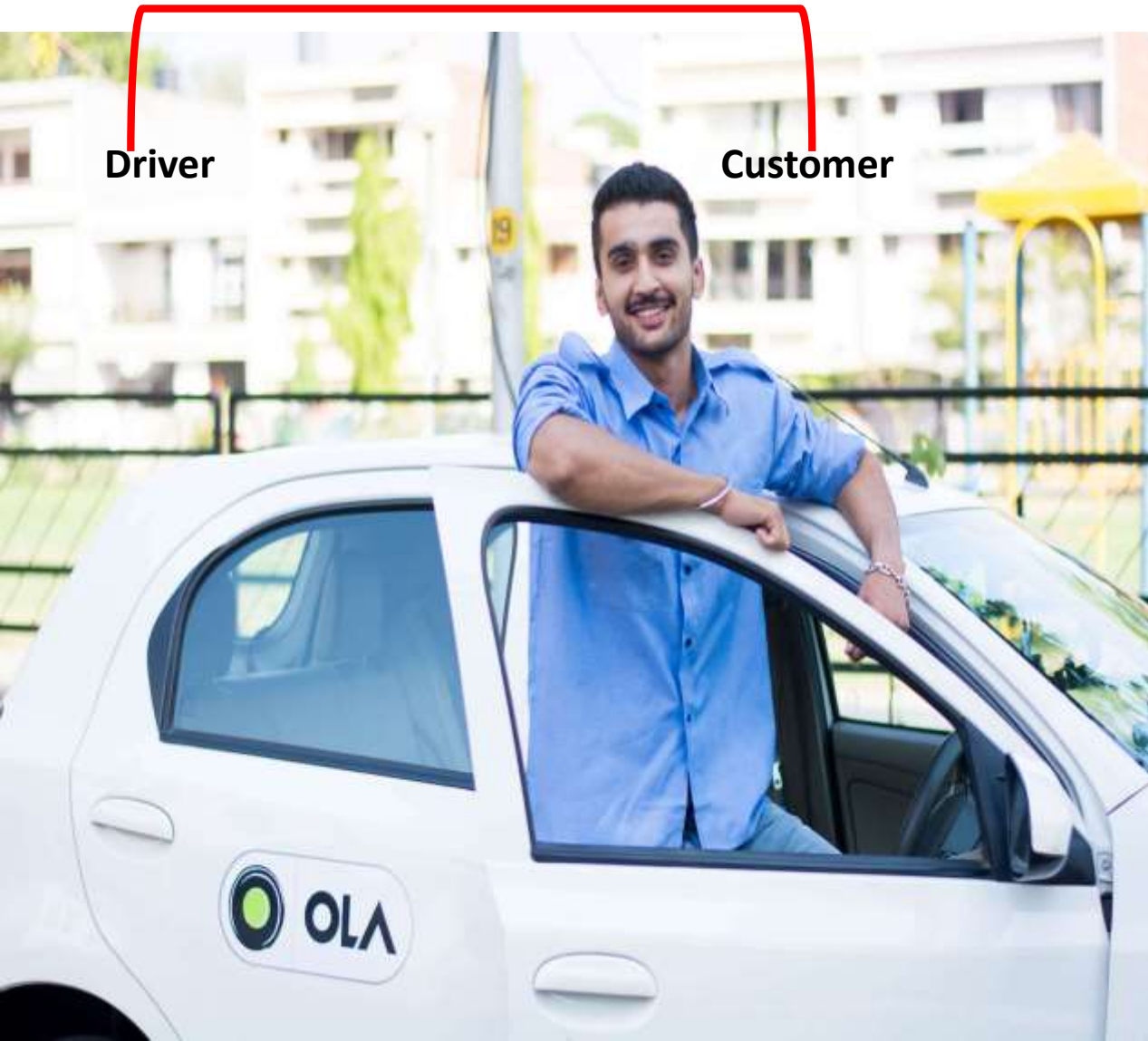
# Who is Cybrarian?



- A **Cybrarian** is a LIS professional who specialized in using the Internet as a resource tool.
- Provides the right information to the right person at the right time using the technology.
- Promotes the use of available reading material in the library with the help of ICT.
- Acts as a link between the library user's needs and its resources and services.

# Cybrarian Needs to Connect with Users Like Ola and Uber

OLA/Uber





## Google vs Cybrarian

- Google may give you 100,000 answers—but credibility matters..
- A Cybrarian can bring you back the right one



## Tech-savvy

- Cybrarians must have technical knowledge such as:
  - Internet
  - Web page design
  - Social media
  - Cloud computing
  - Internet of Things
  - Artificial Intelligence

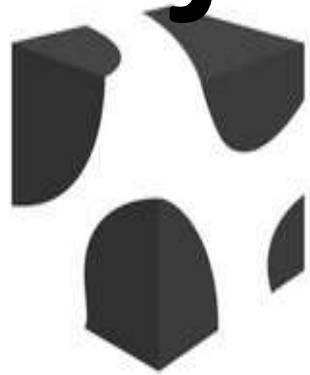
# Access to Online sources



- Create Subject gateways
- Online access to E-resources should be made available through the library website.
- Create IRs
- Online Question papers
- Links to various online sources on the library webpage
- E-books
- E-journals
- E -references sources

## A subject gateway

# Subject



# Gateway<sup>®</sup>

- It is a collection of websites and resources on a specific subject. It's a way to organize and access online information resources.
- Subject gateways are similar to the way librarians organize books in a library
- Use various search engines/AI tools
- Download the content
- Consult the subject experts and Evaluate it
- Create a subject gateway



## Create Dynamic library website

- A library website is a digital space that represents a library and its resources to users.
- It can be used to access library sources and services.
- Library website must be a **virtual library**.

# Links to various online sources

- E-books
- E-journals
- AI tools (Quill Bot)
- E- reference sources
- Journal Archives
- ETDs
- New arrivals
- Services

## **E- books**

- [www.books.google.com](http://www.books.google.com)
- [www.goodreads.com/ebooks](http://www.goodreads.com/ebooks)
- [bookboon.com](http://bookboon.com)
- [www.doabooks.org](http://www.doabooks.org)
- [www.ebookdirectory.com](http://www.ebookdirectory.com)
- [www.getfreeebooks.com](http://www.getfreeebooks.com)
- [www.free-ebooks.net](http://www.free-ebooks.net)
- [www.gutenberg.org](http://www.gutenberg.org)

# Push content—don't wait to pull users



- Through the library website, you can push content—no need to pull users into the library
- Push the content to the doorsteps with the use of ICT.
  - Library Website, Blogs, E-mail.
  - ICT is a boon for Library Professionals.
  - No need to request them to visit the library.



# The INSTITUTIONAL REPOSITORY

Benefits and Challenges

## Institutional Repository

- It is a digital archive where an institution collects, preserves, and makes accessible the intellectual output produced by its researchers
- Research articles, theses, research data, and other scholarly materials
- It is a central online platform to showcase the institution's research findings.



# Online Question papers

- Upload the previous question papers to the library website
- Let the user download them without visiting library.



## Adopt IoT

- Misplacement of Books
- Smart circulation section
- Unauthorized students Identification
- Tracking the movement of Resources
- QR Code
- Theft Management Misplacement of Books



## Use Social media

- Give wide publicity among the users in social media
    - Facebook
    - Twitter
    - WhatsApp
    - Blogs
    - Websites
- Promote the faculty members to use social media for research visibility

# QR code for textbooks to access syllabus and back year question papers



विद्यापीठाच्या बी. ए. भाग तीन या वर्गासाठी 'अर्थशास्त्र' या विषयाच्या जून, २०२० पासून बदललेल्या सेमिस्टर ६ च्या नवीन सी. बी. सी. एस. अभ्यासक्रमानुसार लिहिलेले क्रमिक पुस्तक.

बी. ए. भाग तीन ♦ सेमिस्टर ६  
अर्थशास्त्र पेपर १५

## अर्थशास्त्रातील संशोधन पद्धतीशास्त्र – भाग २ (RESEARCH METHODOLOGY IN ECONOMICS - PART II)

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फडके प्रकाशन

वितरक : फडके बुक हाउस

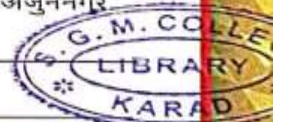
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# Create QR walls

- Hostel Corridor and Dining hall
- Departments
- Department Labs
- Faculty member's Offices

# Users can access E-resources like

- e-journals,
- e-books (open access and subscribed)
- NDLI
- ONOS
- DELNET
- Web OPAC
- library & college website
- Syllabus
- back year question papers
- book subscription form
- feedback form etc

**The change?**



**Turn the Library into a  
Research Support Hub**



EndNote™

## Library: A Hub for Research Assistance

Conduct a series of programs for researchers.

- Reference Management Tools:  
Mendeley, Zotero, Endnote



zotero

# Best Plagiarism Checkers



## Plagiarism detection software

- Educate about the
- Plagiarism detection software: [DrillBit](#), Turnitin, [iThenticate](#)
- Teach teachers to **avoid plagiarism, not to bypass detection tools.**
- Focus on academic integrity: **avoid plagiarism, don't outsmart detection tools.**



# Statistical software

- SPSS, SYSSTAT, R
- Various statistical test
- Anova
- Chi-square
- Correlation
- T Test

# Research Ethics: Dos and Don'ts

## Dos

- Honesty
- Sincerity
- Commitment
- Originality

## Don'ts

- Falsification
- Fabrication
- Misinterpretation
- Giving false evidence
- Plagiarism



## Search engines and meta-search engines

Google

 bing

Yandex

Baidu  百度

YAHOO!

Aol.



- Google
- Yahoo
- Mamma
- Dogpile

# Citation Index : i10 Index & H Index

Papers of Dr. Kalyan	Number of Citation
1	75
2	68
3	65
4	60
5	45
6	15
7	12
8	9
9	5
10	0

i10 Index is 7

H Index is 8

*What ...*

*Where ...*

*How citation*

*Index Calculated?*

## Research Metrics

- Educate the users on
- How to increase the Citation count
- H index
- i10 index, G index, Impact Factor



WEB OF SCIENCE™

# Citation databases

- Web of Science, Scopus



# Academic Social Networking Sites Research Visibility

- ResearchGate
- Academia
- PenProfile

# Educate about AI tools

## Writing assistants

- Wordvice
- WordTune
- Typeset.ai

## Grammar and paraphrasing

- Grammarly
- Quillbot
- PaperPal

## Article Summarizer

- Scholarlcy
- ChatPDF
- Jenni
- Explain paper

## Literature search

- Scite.ai
- Elicit
- Connected Paper

## Presentation

- Pitch
- Slidesgo
- PopAI

## Journal finders

- Elsevier journal finder
- Taylor and Francis
- Springer

# Ethical use of AI tools



- Generative AI can:
- Invent datasets, statistics, and tables
- Generate **fake citations** that look real but do not exist
- This directly violates core research ethics, **honesty and verifiability** and is difficult to detect without careful checking.

I used AI to write my dissertation on the dangers of AI.

# AI: Boon or bane!

- No technology/AI can replace librarian or library
- It is the only flavour
- Perhaps AI is the golden pen for an author
- But the author needs content to write



# Erosion of Critical Thinking

- AI can draft literature reviews and summarise theories.
- Suggest interpretations. Researchers may **outsource thinking**, leading to:
- Superficial analysis
- Weak theoretical grounding
- Loss of scholarly voice
- Research becomes mechanically correct but **intellectually shallow.**





# Educate academics on the ethical use of AI tools

## Balanced Perspective

- AI is **not inherently harmful**. When used responsibly, it can:
- Improve language clarity
- Assist literature discovery
- Support data analysis
- Enhance accessibility

# Inform the users to Use AI ethically

AI may be used to

- Write review
- Write abstract
- Rephrase the sentence
- Conclusion
- Inferences

But don't depend on it, use them in the beginning, learn and try on your own later

# Intelligence to Artificial Intelligence

T. S. Eliot: The most influential poet

Where is the **Life** we have lost in **living**?

Where is the **wisdom** we have lost in **knowledge**?

Where is the **knowledge** we have lost in **information**?”

where is the **intelligence** we have lost in  
**Artificial Intelligence (AI)**



# The Evolving Role of Libraries in Academic Success

- The library should serve not only as the **heart of the institution**, but also as its **brain**.
- Librarians must be **tech-savvy**.
- Libraries must evolve to meet the **changing needs of their users**.
- The academic success of an institution largely depends on the **quality of resources available in the library**
- **Information Use to Information Responsibility**

# We need to move from a Physical Place to a Digital Space





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**THANK  
YOU**

[www.sampathkumar.info](http://www.sampathkumar.info)