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Teaching AI Literacy Through Library Frameworks

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Teaching AI Literacy Through Library Frameworks



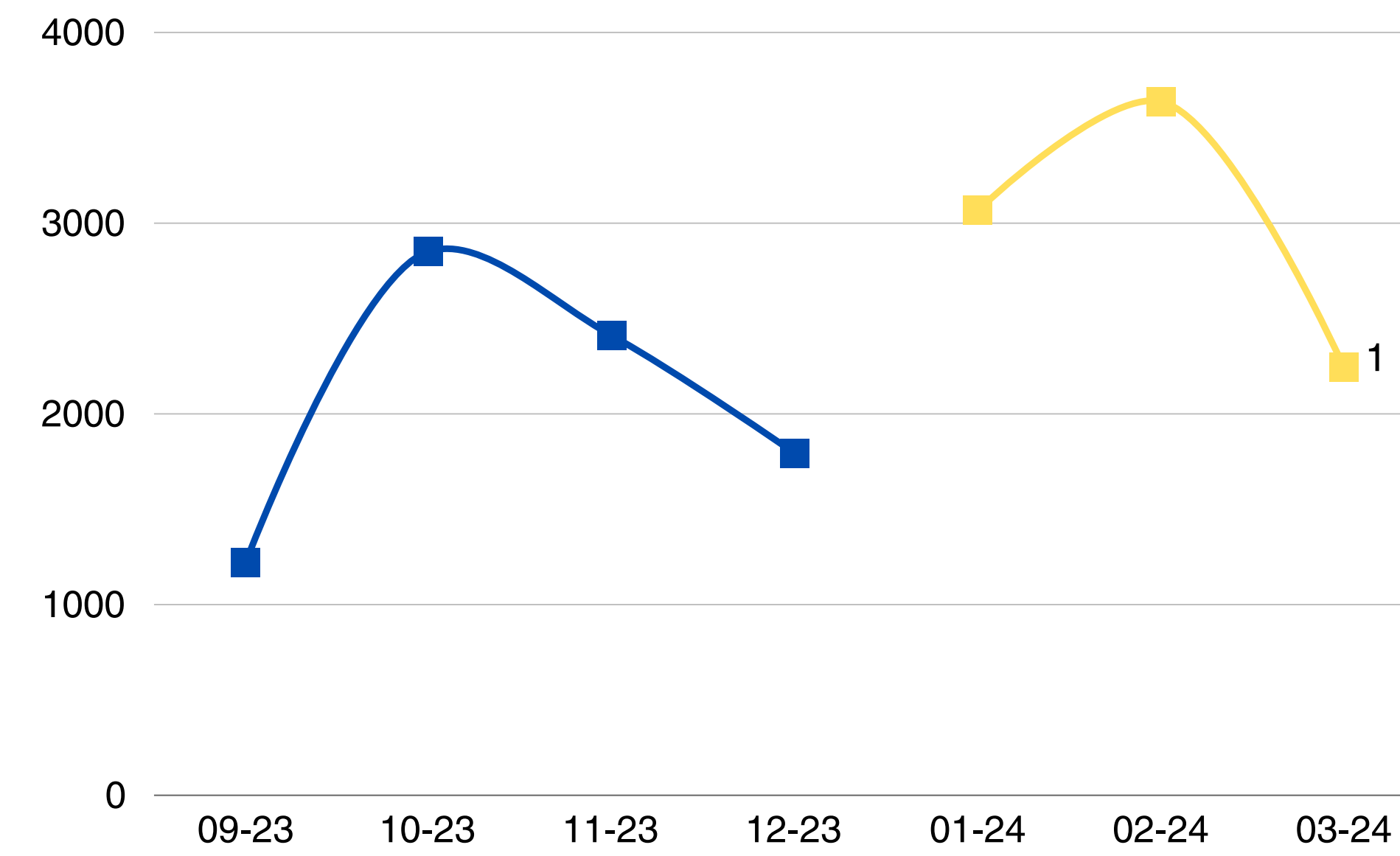
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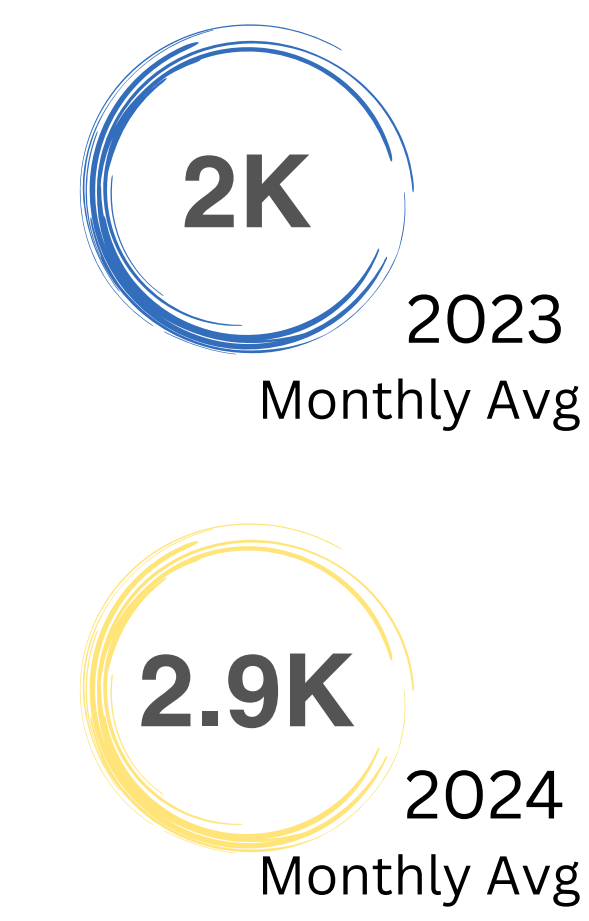
This poster showcases an investigation into the integration of generative AI with the Association of College and Research Libraries' Frameworks for Information Literacy. It delves into key concepts such as authority, information creation, value, research as inquiry, and scholarship as conversation within the context of generative AI. By raising pertinent questions about the credibility, process, value, ownership, and role of AI-generated information, this poster examines the potential contributions of generative AI to scholarly conversations. Moreover, it explores generative AI as a research tool and highlights the implications and considerations of incorporating AI within the framework of information literacy.



**Artificial Intelligence Now:
ChatGPT & AI Literacy Toolbox**
<https://library.fiu.edu/ai/fiu>



**Artificial Intelligence
+ ACRL Frameworks**
<https://library.fiu.edu/ai-acrl>



1. Data accessed on March 18 and does not represent a complete month of usage.

Situate Generative AI within Information Literacy standards promoted by the Association of College & Research Libraries.

- Lesson plans & InfoLit Intervention Strategies
- Prompt engineering for instruction
- Generative AI & Student writing
- ChatGPT for Literature Reviews
- Tools

Authority is Constructed & Contextual: Question Matrix

	Who has the Authority?	What is the scope?	How is context provided?	Who is the intended audience?	How is the authority maintained?
Scholarly	A small group of experts	Narrow focus on a specific question	Literature Review + Bibliography	Other experts in the field	Other experts in the field (Peer Review)
Generative AI	Immense corpus of documents	Wide set of training data	Follow up questions lead to more context	The user, AI responds to a user-generated prompt	Reliance on the LLM & corpus of training data

Information Creation as a Process: Question Matrix

	How do you get good info?	Power search strategy with background info	How does complexity impact search results?	What is produced at the end of a search?
Scholarly	Create a search string that links different concepts together with effective descriptions.	Use synonyms to describe our concepts effectively.	Simple searches typically yield more results that are less relevant. More complex searches typically yield fewer results that are more relevant.	A set of articles that are subject to the researcher's evaluation is produced.
Generative AI	Ask for what you need using concise, logical, and explicit language. Be specific: ask for what you want.	Ask for what you need using concise, logical, and explicit language. Be specific: set the scenario.	Generative AI will compose an answer of roughly the same length no matter how complex the prompt.	A narrative is generated at the end of the search with prompts for additional lines of inquiry.

Information Has Value: Question Matrix

	What is the time commitment?	How are others credited in the final product?	What is the primary dimension of value of each information source?
Scholarly	A search of scholarly materials takes hours, weeks, and months to complete and compile.	The contributions of peers in the field are recognized through citations, giving others the credit for their original ideas.	A means of education. The emphasis is on WHY – Providing the rationale for an answer.
Generative AI	Questions can be explored in a matter of minutes.	While some sources may be linked, most of ideas are conveyed without direct citation.	A means of negotiating and understanding the world. The emphasis is on WHAT – Providing an answer.

Searching as Strategic Exploration: Question Matrix

	How does each system help researchers explore a research question?	How does the operation of each system impact barriers to adoption?	How does feedback from the system help generate new avenues of exploration?
Scholarly	Subject headings, author-supplied topics, and abstract keywords link several articles together when indexed by a database.	Structured search strategies increase barriers to using this tool.	Similar articles are provided in the same search. Metadata serves as a bridge between similar materials. Users can engage with the material to ask new questions.
Generative AI	The breadth of the LLM's corpus allows Generative AI to present information that appears complete.	Natural Language Processing reduces barriers to using this tool. Although effective deployment of prompt engineering improves the chances of successful outcomes.	Users are actively encouraged to iterate on the previous question & answer set.

Scholarship as Conversation: Question Matrix

	How does each system encourage scholarly communication?	How does each system encourage feedback?	How does each system respond to erroneous output?
Scholarly	A review of literature and bibliography situates the discussion within the community of scholars.	Feedback is solicited by either a board of editors or by undergoing the peer review process. This feedback is incorporated into the final output.	A journal may issue a retraction or correction to articles if issues with veracity have been reported to the publication.
Generative AI	The corpus is consulted to help generate terms that are regularly deployed when answering a prompt.	The corpus is trusted to provide accurate and complete information on the topic. A user may also rate their interaction with the LLM.	Since Generative AI is a closed system, improvements are not disclosed. Chat history may not be subject to correction.

Research as Inquiry: Question Matrix

	How does the system break down complex problems?	How does each system narrow the scope of inquiry?	What is the role of critical analysis in evaluating new lines of inquiry?	To what does scholarly inquiry lead in each system?
Scholarly	The cognitive load is mostly on the researcher to break the inquiry down into components.	The cognitive load is mostly on the researcher to identify research opportunities in the field. This is typically done through lit review.	Critical reviews deliver contextual information and may expose bias in research processes and the interpretation of data.	Questions may lead to original contributions to the field.
Generative AI	Generative AI can recognize and point out distinct patterns in compositions on the topic.	Generative AI can create concept maps that may suggest new lines of inquiry.	Limited access to context and biased data may limit the critical value of the responses generated by AI.	Questions lead to an expanded understanding of a given topic.

Information & Research Services

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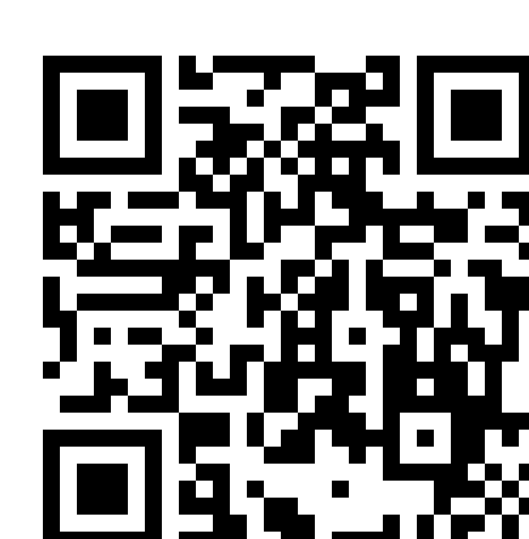
AI Tools for Library Research

<https://fiu.libcal.com/calendar/Events/AI-Tools>



Fundamentals of Information Literacy

<https://library.fiu.edu/microcredential/>



Oral Histories
Transcription
Image/Facial Recognition

<https://library.fiu.edu/dcc-AI>



Spatial literacy of ChatGPT
Mapping & ChatGPT
GeoGPT
AI Discovery Layer

<https://library.fiu.edu/gis-AI>



Framework for Information Literacy for Higher Education

<https://library.fiu.edu/ACRL-Framework-IL>