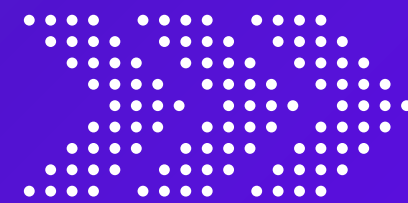


AI INTEGRATION IN LIBRARIES

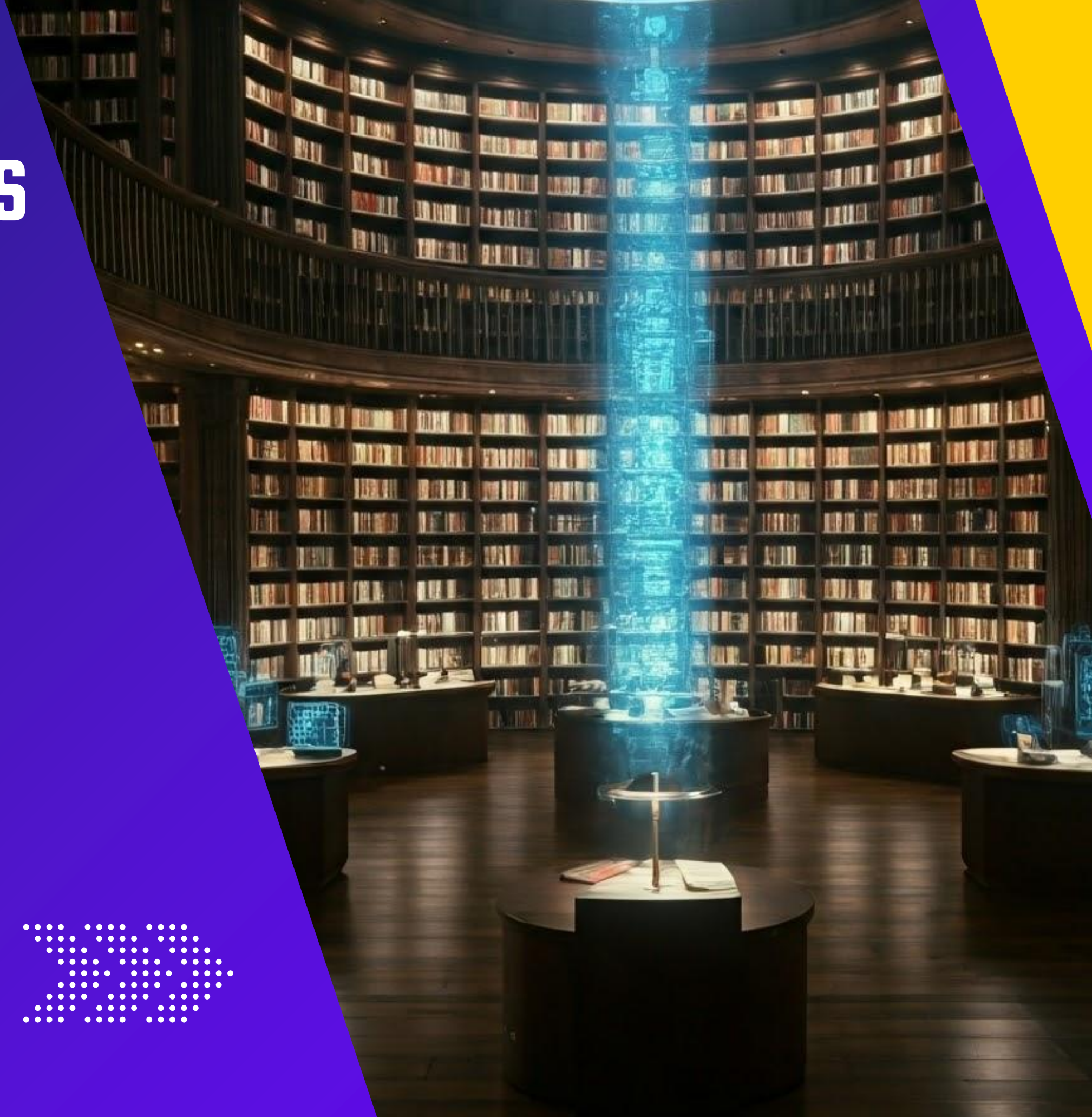
LEVERAGING GENERATIVE AI FOR RESEARCH, OUTREACH, AND DIGITAL FLUENCY

Libraries are evolving into digital knowledge gateways. AI tools like ChatGPT, Gemini, and Claude enhance library services.

Today we'll explore how generative AI supports research, outreach, and digital fluency in modern libraries.



Presented by Donte' Perry



ABOUT YOUR PRESENTER

DONTE' PERRY

Faculty, INFORMATION TECHNOLOGY | ROWAN-CABARRUS CC (RCCC)
PRESIDENT | METROLINA LIBRARY ASSOCIATION (MLA)

✓ AI INTEGRATION EXPERTISE

Specializes in AI integration in academic settings, focusing on student success, digital fluency, and faculty development.

✓ ACTIVE AI RESEARCH & APPLICATIONS

Research generative AI tools (ChatGPT, Perplexity, Elicit, Consensus, Gamma, and more) for teaching, advising, and academic support.

✓ EDUCATIONAL BACKGROUND

- Current Master of Science in Information and Cybersecurity Technology (MSICT) Graduate Student
- Holds a Master of Library Science (MLS) and Master of Information Science (MIS)
- Focused on leveraging AI for practical applications in education, libraries, and digital learning



ABOUT ME?

THE LIBRARY'S ROLE IN THE AI ERA

✓ ENHANCED RESEARCH SUPPORT

AI tools empower libraries to assist students and faculty with deep research, fact-checking, and content discovery, improving academic outcomes.

✓ DIGITAL FLUENCY & AI LITERACY

Libraries play a key role in fostering digital literacy and AI competency, preparing patrons to navigate AI-generated information responsibly.

✓ EXPANDED OUTREACH & ENGAGEMENT

AI-driven content creation helps libraries produce targeted newsletters, virtual guides, and interactive services, expanding community engagement.

✓ OPERATIONAL EFFICIENCY & INNOVATION

Generative AI streamlines reference services, automates repetitive tasks, and supports innovative programs without increasing workloads.



WHAT IS GENERATIVE AI?



COMMON TOOLS



**CHATGPT, GEMINI, CLAUDE
FOR TEXT**



**PERPLEXITY
FOR GENERAL APPLICATIONS**



**ELICIT & CONSENSUS
FOR RESEARCH**



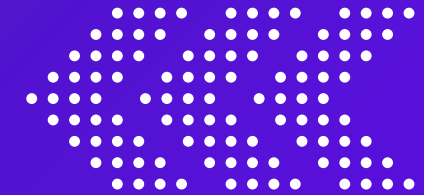
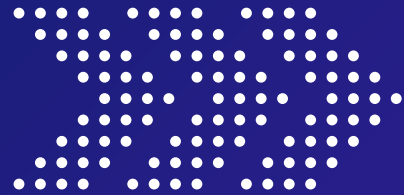
**GAMMA
FOR VISUAL PRESENTATIONS**

AI that creates human-like content including text, images, and code.

Relevance to Libraries

- Efficient patron support
- Enhanced digital literacy
- Research support
- Workflow automation

WHY LIBRARIES SHOULD CARE



✓ EFFICIENT PATRON SUPPORT

AI assistants can answer common questions. This frees staff for complex inquiries.

✓ ENHANCED DIGITAL LITERACY

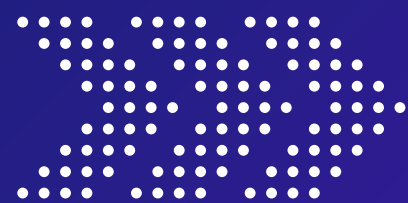
Libraries teach critical AI evaluation. Patrons learn to use these tools responsibly.

✓ RESEARCH ASSISTANCE

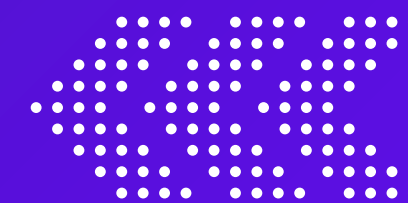
AI tools synthesize literature. They support faculty and student scholarship.

✓ WORKFLOW AUTOMATION

Routine tasks can be automated. Staff focus on high-value services.



GENERATIVE AI IN RESEARCH SUPPORT



✓ ~~LITERATURE SUMMARIZATION~~

Elicit AI synthesizes research papers.

Consensus AI extracts peer-reviewed findings.

✓ ~~KNOWLEDGE DISCOVERY~~

Perplexity provides citation-backed answers.

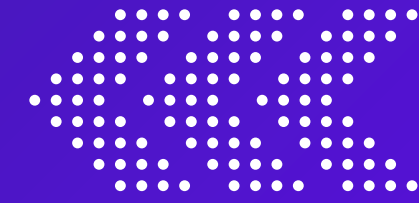
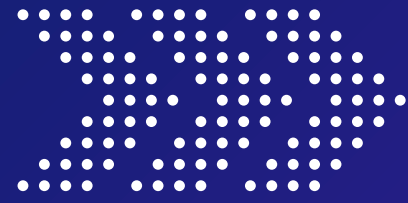
ChatGPT enables deep research exploration.

✓ ~~CITATION ASSISTANCE~~

Tools like Scite and Zotero AI help manage references.

✓ ~~LIBRARIAN'S ROLE~~

Teaching AI literacy, evaluating outputs, and ensuring ethical use.



OUTREACH & COMMUNITY ENGAGEMENT

✓ VIRTUAL ASSISTANTS

ChatGPT & Claude power interactive patron engagement.

✓ CONTENT CREATION

Gemini and Gamma create engaging outreach materials.

✓ CUSTOM KNOWLEDGE BASES

Library-specific GPTs answer specialized questions.

✓ INCLUSIVE ACCESS

AI translation tools support diverse communities.

PROMOTING DIGITAL FLUENCY

✔ WORKSHOPS & TRAINING

Prompt engineering basics and critical evaluation of AI-generated information.

✔ INFORMATION LITERACY

Teaching students to identify AI hallucinations and use AI responsibly.

✔ FACULTY PARTNERSHIPS

Co-developing AI resource guides using various AI tools.





RIGHT

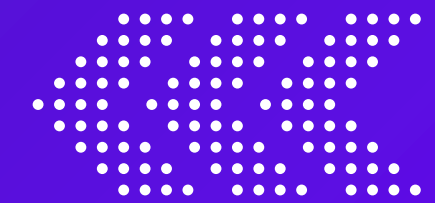
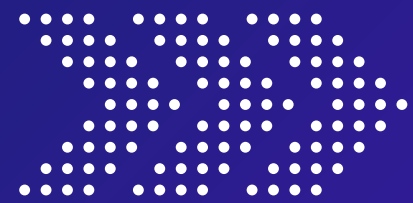
WRONG

ETHICAL & LEGAL CONSIDERATIONS

- ✓ **MISINFORMATION & BIAS** AI can produce inaccurate or biased information. Verify all outputs.
- ✓ **PRIVACY & SECURITY** Handle sensitive data responsibly. Be cautious with tools that store inputs.
- ✓ **INSTITUTIONAL POLICIES** Develop clear AI use guidelines for staff, faculty, and students.
- ✓ **COPYRIGHT** AI-generated content without human input isn't copyright protected.

copyright

U.S. COPYRIGHT OFFICE POLICY ON AI



✓ ~~AI-ONLY CONTENT~~

Works generated solely by AI are not eligible for copyright protection

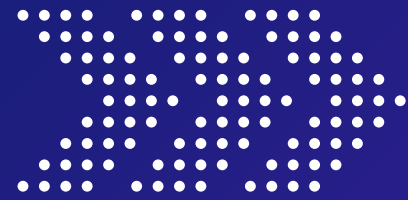
✓ ~~HUMAN AUTHORSHIP~~

Human creators must significantly contribute for copyright eligibility

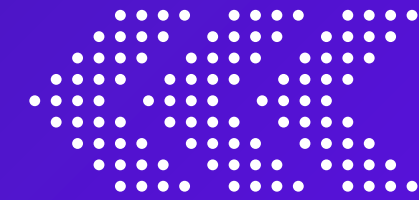
✓ ~~CITATION REQUIREMENT~~

Cite AI-generated content even when copyright doesn't apply

Refer to official guidance: <https://www.copyright.gov/ai/>



AI TOOL COMPARISON



Tool	Strengths	Limitations	Best For
Claude	Nuanced, context-rich responses	Lacks native citations	Detailed explanations
ChatGPT	Powerful research support	Requires output verification	Content creation
Perplexity	Source-backed research	Limited customization	Academic research
Consensus	Peer-reviewed sources	Narrower scope	Scientific queries
Gamma	Fast, professional visuals	Limited research functions	Presentations

DEMO TIME: AI TOOLS IN ACTION



Perplexity

AI-powered research with real-time citations for factual Q&A



Elicit AI

Literature review synthesis and structured evidence extraction



Consensus AI

Scientific consensus answers from peer-reviewed literature



ChatGPT

Versatile research assistant with Custom GPTs for library tasks

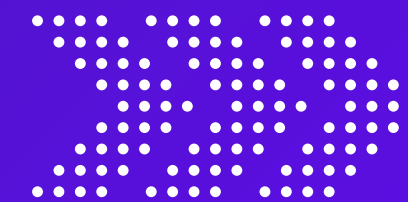


Gamma

Creating presentations, documents, and visual content quickly

DEMO

Shift



Feel free to sign in and join me as we proceed!

THE FUTURE OF LIBRARIES & AI

✓ AI AS PARTNER

AI augments librarian expertise. It handles routine tasks while staff focus on complex services.

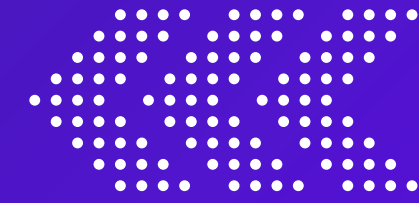
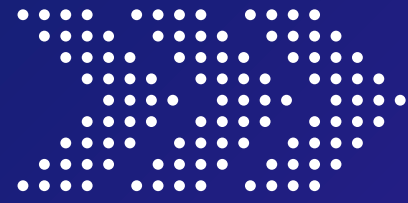
✓ SKILL EVOLUTION

Librarians become AI literacy educators. They help patrons navigate the AI landscape.

✓ ENHANCED SYSTEMS

AI powers metadata tagging and knowledge organization. It improves discovery and accessibility.





CONCLUSION & CALL TO ACTION

✓ **BE PROACTIVE**

Lead ethical AI adoption in your library.
Don't wait for others to set the standard.

✓ **START SMALL**

Pilot AI projects in reference or outreach.
Learn from small implementations.

✓ **COLLABORATE**

Partner with IT, faculty, and administration.
Develop comprehensive AI strategies.

✓ **EMPOWER PATRONS**

Promote digital fluency through education.
Teach responsible AI use.

THANK YOU

If you have any further questions or would like to discuss anything in more detail, please feel free to reach out to me.



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