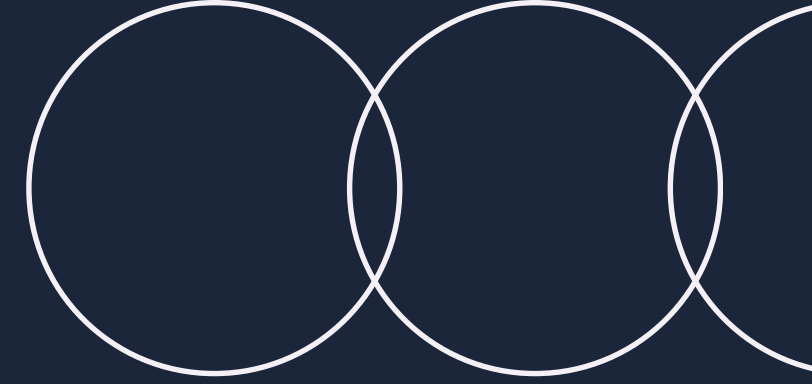


Leveling Up the Research Process with Generative AI



Introductions



Mitchell A. L. Haas, MSLIS
Online Learning Librarian, Assistant Professor
Southern Illinois University Edwardsville
Compliance and Technology Fellow
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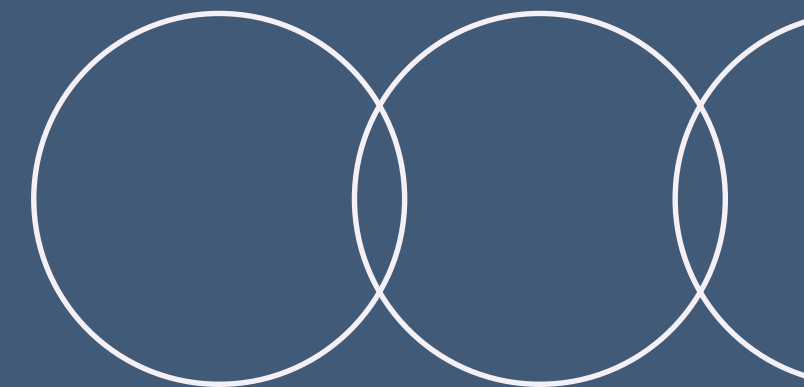
Shelly McDavid, MLS, M.Ed.
Director for Access, Discovery & Systems
STEM Librarian, Associate Professor
Southern Illinois University Edwardsville



Learning Objectives

Upon completion of this session, participants will be able to:

- Describe the role of Generative AI in academic research and identify key tools that can be used at various stages of the research process.
- Demonstrate how to use at least one Generative AI tool to support a specific phase of the research process (e.g., from defining an information need to analyzing and evaluating resources).
- Evaluate the potential benefits and limitations of Generative AI tools in scholarly research based on live demonstrations and peer discussion.



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“Describe your comfort level
with
AI tools?”



AI Literacy and the Research Process

Search and Revise with AI Assistance

Becoming AI Literate

- Investigate and educate yourself on the capabilities, limitations, and ethical pitfalls of AI tools.
- Use AI to support—not replace—your own thinking and analysis.
- Treat any AI-generated content as needing verification and refinement.

AI Fluency and You

- Practice prompt creation and revising.
- Strategize and Identify the best use cases for individual tools.
- Ensure your adherence to and stay versed of changes in best practices.

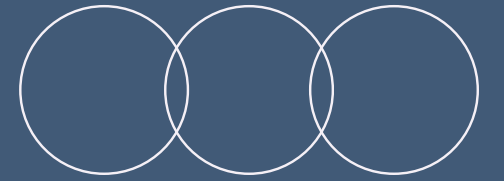
Iterative Search Process



Attaining AI Proficiency

- Identify ways that AI tools can be integrated into your existing workflows.
- Automate tasks and increase efficiency when possible ensuring adherence to ethics and best practices.
- Explore and imagine new possibilities with AI assistance.

AI Tool Selection and the Research Process



Planning Your
Research Project

Finding and Analyzing
Sources

Search Strategies,
Templating, and
Contextualization

Using Goblin.Tools to
chunk your research
tasks into a streamlined
To-Do list.

ResearchRabbit helps
you to visualize citation
networks and discover
related research.

Using an LLM such as Copilot or
ChatGPT, can assist in developing your
search strategy and identifying search
terms, creating templates to organize
your research, and, especially for our
students, it can contextualize
unfamiliar concepts and material and
provide a starting point for research.

Best Practices for GenAI Research



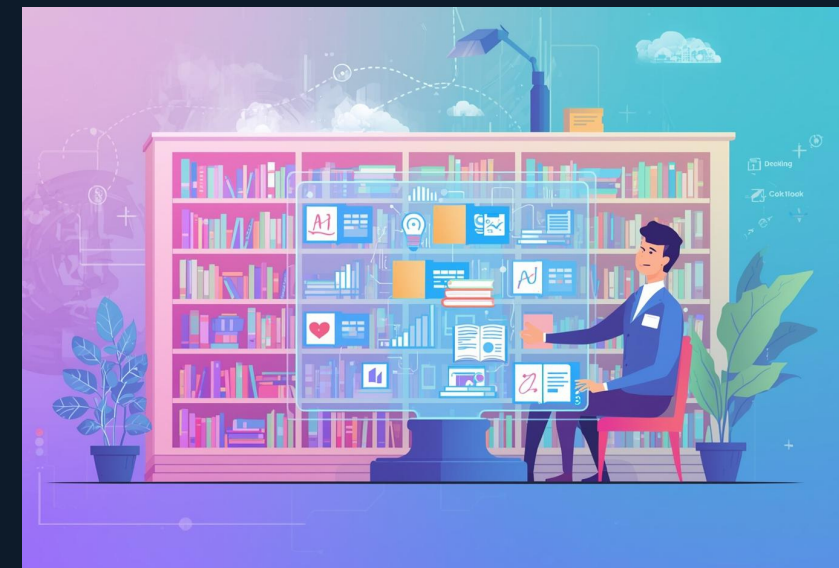
Be Transparent and Verify

- Verify all citations and facts—AI may fabricate or misrepresent sources.
- Clearly state when and how AI tools were used in your work.



Practice Ethical Use

- Educate yourself on the ethical pitfalls of AI tool use and the limitations of AI tools.
- Don't input sensitive or personal data, especially of others, into public AI tools.



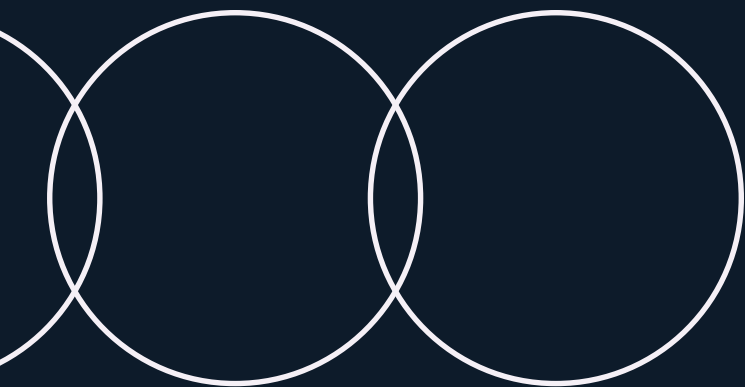
Stay Updated and Be Curious

- Keep abreast of new developments in AI technology, tools, and best practices.
- Explore and experiment with different tools and uses.



Critically Evaluate

- Review AI-generated content for accuracy, bias, and relevance.
- Cross-check claims and citations with trusted academic sources.



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“What is your experience with
AI tools?”



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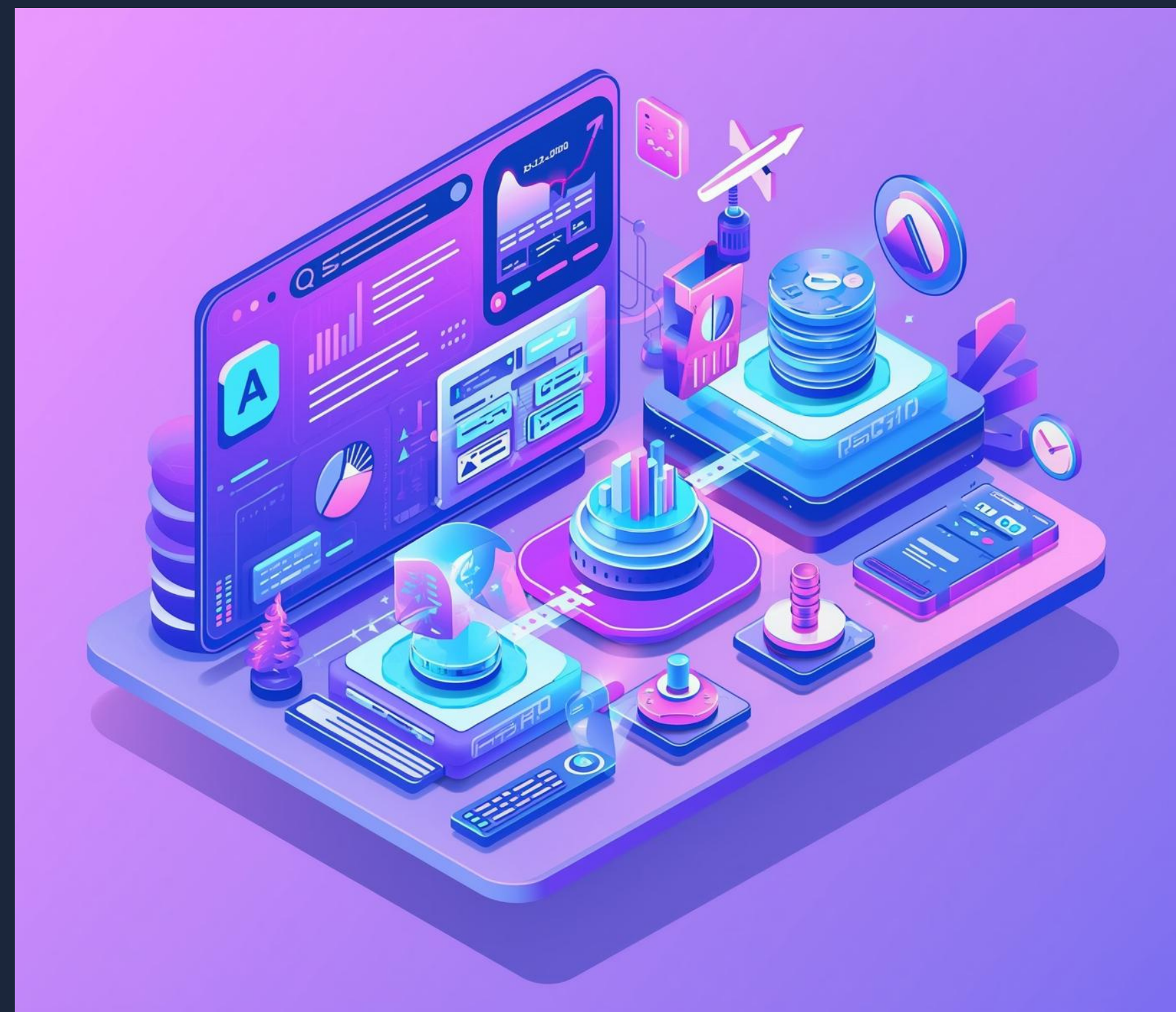
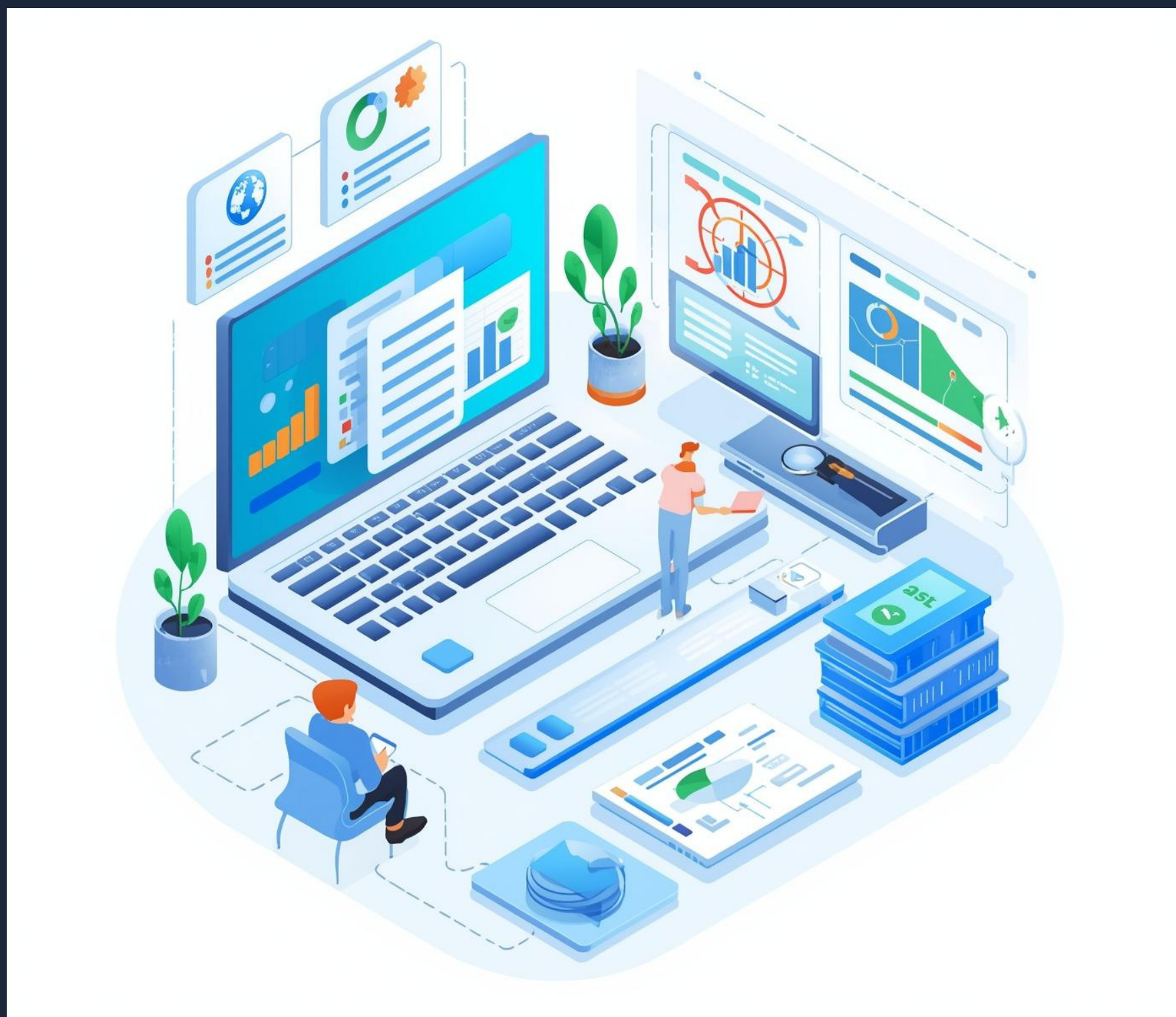
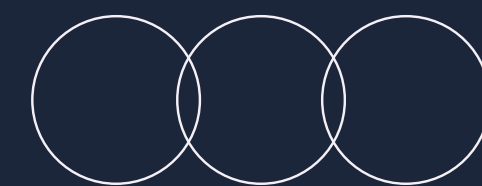
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“What have you used AI tools for in the past or what uses would you like to use AI for?”



GenAI Tools in Action



Thank You for
Attending!

Questions?

