Generative AI tools & ethical issues

FTMBA – References, plagiarism

Regulations, guidelines & guides

Corvinus University supports using AI in teaching and research and encourages the exploration of generative AI tools.

Ethical responsibilities:

- Any AI involvement must be **indicated**, and **intellectual property rights** must be respected.
- Students must declare AI usage in a written statement.
- Lecturers must define **rules for AI use** in their courses and syllabi, including when and how students may use AI tools.

AI tools usage:

Permitted Uses:

- Post-editing one's own work for better grammar and clarity.
- Assisting with data analysis or statistical evaluation.
- Stylistic or grammatical improvements provided the base work is original.
- Using AI-generated ideas or content if explicitly declared with proper attribution.

Non-Permitted Uses:

- Submitting AI-generated content as one's own original work.
- Using AI to adapt another author's work without attribution.
- Disclosing statistical data or AI-generated summaries without proper validation.
- Including confidential or personal data without explicit contractual justification.
- Any use during exams or unauthorized assignments is considered plagiarism or unauthorized aid.

Regulations:

- <u>Study and Examination Regulations</u>
- Anti-plagiarism Regulations
- <u>Code of Ethics</u>
- <u>Provisions on the use of generative artificial intelligence systems</u>

Recommended AI tools

How to Write a Good Prompt

- 1. Be clear & specific Say exactly what you want.
 - Instead of: "Tell me stuff about dogs." / "What are the best podcasts?"
 - Try: "Give me 3 interesting facts about Golden Retrievers."
 - "List 5 names for a tech podcast, then pick your favorite."
- 2. Give details & examples Mention the style, tone, or format you want.
 - Example: "Write it like a fun Instagram caption."
 - "Give me a product description like this: [insert sample]."
- 3. Explain the goal What are you using it for?
 - Example: "I need a catchy slogan for my new webshop that sells anime merch."
- 4. Use roles helps the AI tailor its response to the context you want
 - Example: "Act like a marketing expert..."
- Try, Adjust, Repeat If it's not quite right, try rephrasing, changing the tone, or breaking a big ask into smaller parts.

Conversational AI (multi-purpose tools)

Designed to simulate human-like conversations and assist users with diverse tasks, from answering queries and providing explanations to generating creative content.

ChatGPT

Advantages:

- Versatile, detailed responses for multiple research tasks.
- Assists in summarizing complex information.
- Strong at brainstorming and writing assistance.

X Disadvantages:

- Occasional inaccuracies or hallucinations.
- Limited information before a certain cutoff date.
- Generalized knowledge is not always academically rigorous.
- Sensitive to prompting quality.

Alternatives

• **Perplexity**

🗹 Advantages:

- Real-time sourced answers are helpful in academic research.
- Quick synthesis of updated research data and summarization.
- Easy verification of sources provided.

- Dependence on source accuracy.
- Less effective in nuanced academic dialogues.
- Superficial for deep literature reviews.
- Source dependency can lead to inconsistency.

• Claude

🗹 Advantages:

- Excellent summarization and analytical reasoning.
- Longer context handling is beneficial for extensive documents.
- Ethically aligned, fewer risky outputs.

X Disadvantages:

- Limited integration with external research tools.
- Less publicly accessible compared to ChatGPT.
- Occasional oversimplifications in nuanced topics.

• MS Copilot

Advantages:

- Efficient document creation within the Microsoft ecosystem.
- Good for structured writing and productivity.
- Task automation and productivity enhancement.
- Seamless integration with citations, data, and formatting.

- Reliant on Microsoft software environment.
- Limited for detailed literature analysis.
- Privacy concerns in sensitive academic contexts.

Research Assistant Tools

Facilitate academic research by efficiently identifying, summarizing, and organizing scholarly information.

Elicit

Advantages:

- Automates systematic literature reviews efficiently.
- Clearly identifies relevant studies quickly.
- Useful for structured research questions.

X Disadvantages:

- Less effective for exploratory or broad research.
- Limited flexibility in interpreting complex queries.
- Dependent on database completeness.

Alternatives:

• Consensus

Advantages:

- Quickly highlights scholarly agreement/disagreement.
- Efficiently summarizes scholarly consensus.
- Effective for evidence-based research.
- Good synthesis of research conclusions.

- Oversimplifies nuanced scholarly debate.
- Limited on emerging or niche topics.
- Dependent on existing literature quality.

• Semantic Scholar

Advantages:

- Large scholarly database, practical citation analysis.
- AI-generated summaries and key insights.
- Visualization of citation relationships.

X Disadvantages:

- Inconsistencies in summary accuracy.
- Occasional incomplete data coverage.
- Complexity in interface navigation for beginners.

• Paperguide

🗹 Advantages:

- Simple, effective categorization of relevant papers.
- User-friendly interface.
- Good for initial research exploration.

X Disadvantages:

- Smaller database coverage.
- Limited advanced filtering/sorting.
- Provides less in-depth summaries.

Visualization - Literature Mapping Tools

Help researchers organize and visualize relationships between scholarly works to highlight connections, influence, and gaps in existing research.

Litmaps

Advantages:

- Clearly visualizes connections between academic papers.
- Identifies knowledge gaps effectively.
- Good integration with citation managers.

X Disadvantages:

- Limited free usage options.
- Complexity of visualizations can overwhelm new users.
- Needs refinement for niche academic areas.

Alternatives:

• Research Rabbit

Advantages:

- Strong visualization of related literature.
- Useful collaboration features for research teams.
- Quick discovery of relevant articles.

X Disadvantages:

- Smaller database; may miss key articles.
- Can feel cluttered or overwhelming.
- Occasional irrelevant suggestions.

Connected Papers

Advantages:

- Clear and intuitive citation maps.
- Efficient at finding related influential papers.
- Helps quickly identify seminal works.

🗙 Disadvantages:

• Limited to recent citations; may omit older relevant works.

- Lacks integration with other citation tools.
- Might miss less-cited but essential papers.

o CitationGecko

Advantages:

- Simplifies the creation of literature networks.
- Easy import/export of bibliographies.
- Good for focused literature reviews.

X Disadvantages:

- Limited analytical features.
- Small-scale visualization challenging for complex topics.
- Less known; limited community support.

Source Processing & Analysis Tools

Simplify understanding and analysis of academic documents by quickly extracting, summarizing, and interpreting content.

SciSpace

Advantages:

• Efficiently summarizes and explains complex papers.

- Interactive PDF reading experience.
- Helpful community-driven Q&A.

X Disadvantages:

- Varying accuracy of generated explanations.
- Less suitable for obscure academic fields.
- Dependence on user-contributed accuracy.

Alternatives:

• NotebookLM

Advantages:

- Effective at organizing research notes.
- Seamless integration into Google services.
- Good for synthesizing multiple research documents.

🗙 Disadvantages:

- Limited access tied to Google's ecosystem.
- Potential privacy concerns.
- Limited depth for rigorous academic analysis.

• Explainpaper

🗹 Advantages:

- Simplifies academic text and technical jargon.
- Quick explanations enhance understanding.
- Easy document uploading.

X Disadvantages:

• Explanation accuracy varies.

- Limited depth for nuanced analysis.
- Less suitable for broad comparative analysis.

• ChatPDF

Advantages:

- Direct Q&A from uploaded academic PDFs.
- Quick summarization of lengthy papers.
- Easy, intuitive interface.

X Disadvantages:

- Superficial analysis of highly complex papers.
- Accuracy depends on PDF quality.
- Limited multi-document analysis.

• AskYourPDF

🗹 Advantages:

- Effective for rapid PDF summarization and Q&A.
- Simple document interactions.
- Quickly extracts main ideas.

X Disadvantages:

- Less effective on complex or highly technical texts.
- Sensitive to text extraction quality issues.
- Does not support cross-document insights.

Academic Writing Tools

Simplify writing processes and enhance academic papers by improving grammar, style, readability, and adherence to scholarly standards.

Paperpal

🗹 Advantages:

- Tailored specifically for academic publication standards.
- Provides specialized grammar and style improvements.
- Enhances readability and professional tone.

X Disadvantages:

- Sometimes, overly rigid suggestions.
- Limited free tier usage.
- Less flexibility for non-standard academic texts.

Alternatives:

• Trinka

🗹 Advantages:

- Specialized in scholarly grammar and style improvements.
- Good for publication-quality manuscripts.
- Effective checks for research-specific language.

- Costly for premium features.
- Overly cautious or restrictive edits.
- Less effective for general writing.
- Grammarly



- Comprehensive grammar, clarity, and plagiarism checks.
- Excellent integration into writing workflows.
- Enhances readability for various document types.

X Disadvantages:

- Not specifically tailored for scholarly contexts.
- Generic recommendations can oversimplify complex writing.
- Expensive premium features.

o Jenni.ai

🗹 Advantages:

- Generates initial drafts quickly to overcome writer's block.
- Customizable writing styles.
- Useful for ideation and basic draft formation.

X Disadvantages:

- May produce generic or repetitive content.
- Potential ethical concerns about originality.
- Limited effectiveness for detailed scholarly writing.

o Yomu

🗹 Advantages:

- Effective PDF reading, annotation, and note-taking.
- Clean, distraction-free interface.
- Enhances reading-focused workflows.

- Limited advanced AI-driven analysis.
- Not suitable for managing extensive literature collections.
- Primarily for reading rather than writing assistance.

Summary:

- **Conversational AI**: ChatGPT and Claude excel in dialogue and complex reasoning, Perplexity integrates web search, and Copilot boosts productivity within Microsoft tools.
- **Research Tools**: Elicit, Consensus, and Semantic Scholar quickly summarizes academic literature and identifies research patterns.
- **Citation & Literature Mapping**: Connected Papers, Research Rabbit, and Litmaps visually represent relationships among academic papers effectively.
- **PDF Analysis Tools**: ChatPDF, SciSpace, Explainpaper, and AskYourPDF simplify paper understanding through summarization/Q&A interfaces.
- Academic Writing Tools: Paperpal and Trinka specifically enhance scholarly writing; Grammarly offers broad grammatical support; Jenni generates drafts, and Yomu provides reading-focused enhancements.