



Redesigning Research Paper Assessment in the Age of AI

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*“Assessing Student Learning
Outcomes in the Era of AI”*

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Challenges in Assessment

From Pre-AI to the AI Era

PRE-AI ERA



Main Challenge: Plagiarism

Students may copy content from existing sources.



How it was addressed:

Detected using plagiarism detection tools like [Turnitin](#).

AI ERA



Key Challenges:

- Originality of student work is difficult to verify
- Plagiarism and AI-generated content are hard to detect



Why it's challenging:

AI tools can generate human-like, original-sounding content that is difficult to detect using traditional plagiarism and AI detection tools.



The Way Forward

We need to rethink assessment design to promote authenticity, critical thinking, and meaningful learning in the age of AI.



Assessment Method

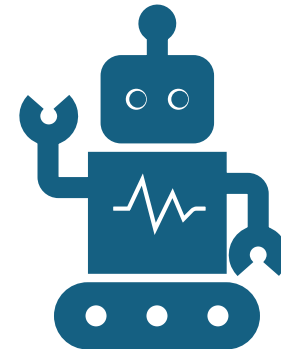
Process-oriented research
paper



Expected Outcomes

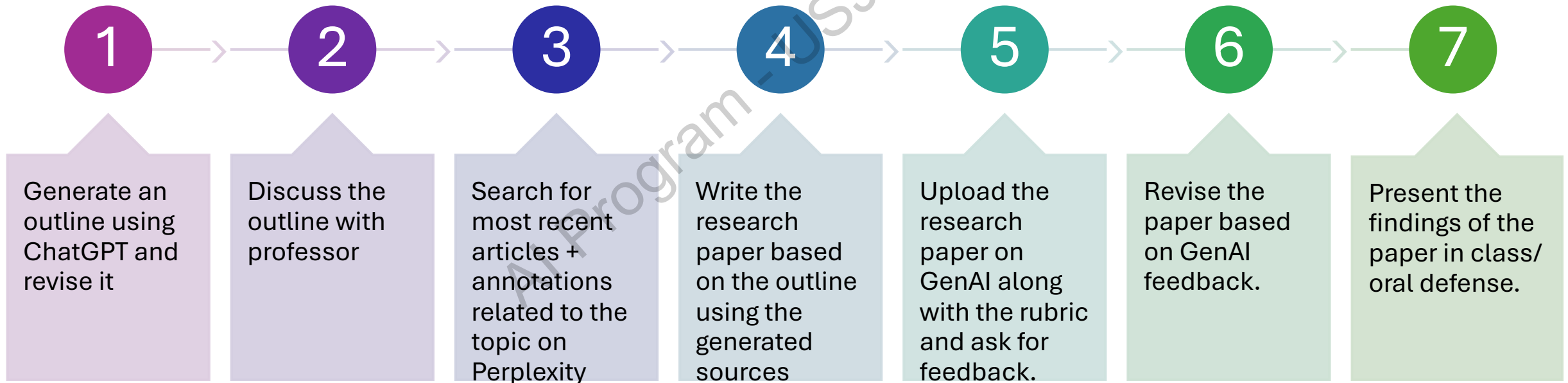


Developing skills for ethical and responsible use of AI



Using AI as a support tool for learning.

Process-Oriented Research Paper



Example of AI Generated Outline

I. Introduction

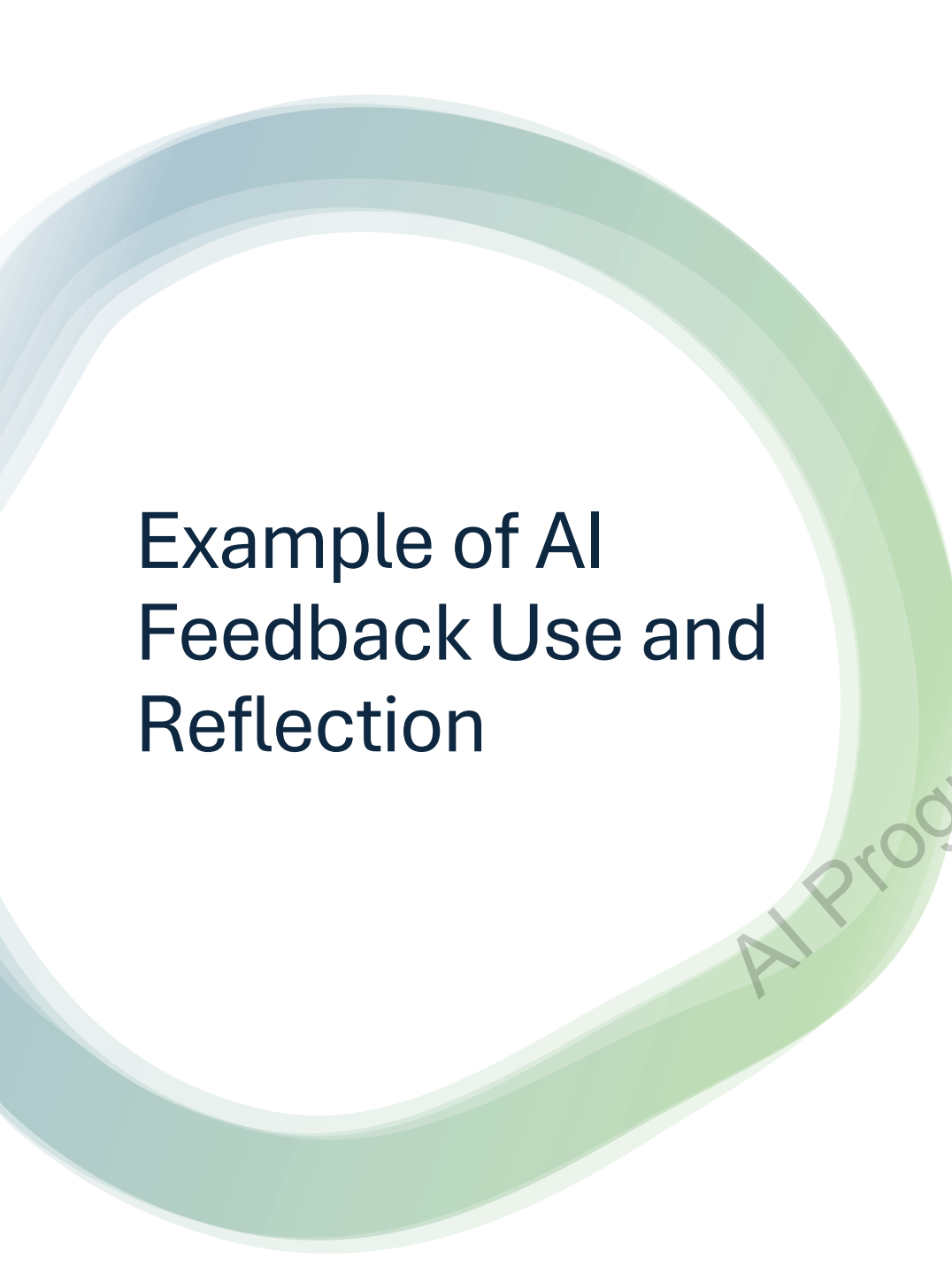
- Traditional assessments are often stressful and disengaging
- Rise of gamification and AI in education

II. Overview of Gamified AI Assessment

- Gamification: use of game elements (points, badges, levels) to increase motivation
- AI in education: personalization, adaptive feedback, automated assessment
- Gamified AI assessment: combines both to create interactive, adaptive testing
- AI adjusts difficulty and provides feedback; gamification adds rewards and challenges

Rubric

Criteria	Exemplary (90-100%)
1. AI-Assisted Outline Development (5 pts)	Generated a detailed outline using AI; critically revised and improved it; changes are clearly documented and justified.
2. Literature Search and Source Selection (10 pts)	Identified recent, highly relevant scholarly sources and annotations; demonstrates strong source evaluation skills.
3. Instructor Consultation and Outline Revision (10 pts)	Clearly incorporated instructor feedback and significantly improved the outline.
4. Quality of Research Paper Content (25 pts)	Presents a comprehensive overview of the topic with strong theoretical grounding; arguments are well developed and supported by evidence.
5. Critical Analysis of Strengths and Limitations (25 pts)	Provides balanced, insightful analysis of strengths and weaknesses specific to the topic; avoids generalizations.
6. AI Feedback Utilization and Reflection (10 pts)	Uploads paper to GenAI (e.g. ChatGPT); critically evaluates feedback; thoughtfully revises paper and explains which suggestions were accepted or rejected.
7. Oral Presentation / Defense (10 pts)	Demonstrates deep understanding of the topic and research process; confidently answers questions and explains AI use.
8. Academic Writing and Referencing (5 pts)	Writing is clear, coherent, and virtually error-free; APA style is consistently accurate; AI use is transparently disclosed.



Example of AI Feedback Use and Reflection

During the writing of this research paper, I used ChatGPT as a learning and writing support tool. Specifically, I used it to obtain feedback on the organization, clarity, grammar, and academic style of my work. I also used ChatGPT to check if the content of my paper addresses the requirements of the rubric. The ideas, analysis, articles selection, and final content of the paper are my own. ChatGPT recommended that I use more complex sentences than simple sentences and fragments. I revised the sentences accordingly. It also asked me to revise the spelling of some words which I did. Furthermore, ChatGPT pointed out that the Strengths of Gamified AI assessments are general. They require more synthesis and more sources which I revised accordingly. This was a good exercise as it helped me improve my writing skills and the content of my paper.



Oral Presentation/ Defense

Student was asked to provide an example of an assessment using Gamified AI.

AI Program - USJONES

Challenges

Assessments in
the AI era are
more time
consuming

Humanized AI-
generated work

Students'
evaluation of the
output generated
by AI

Benefits



STUDENTS
LEARN THAT AI
IS A TOOL FOR
SUPPORT
RATHER THAN A
SUBSTITUTE
FOR THINKING.



BUILDS AI
LITERACY



SUPPORTS
FORMATIVE
ASSESSMENT



STRENGTHENS
ACADEMIC
WRITING



PROMOTES
CRITICAL
THINKING

Recommendations

Institutional level policies should be available to students.

At the course level, every course should clearly state whether GenAI use is allowed or not and how students may or may not use it.

At the assignment level, provide clear guidelines.

Provide feedback at the different stages of the assessment.

AI Transparency Requirement



AI tools used (e.g., ChatGPT, Perplexity, NotebookLM)



Prompts used to generate the outline and obtain feedback



Description of how AI outputs were modified



Reflection (250–300 words) on the benefits and limitations of AI during the research process

Rethinking and Redesigning Assessments

Presentations

Demonstrations

Walkthroughs

Teach-back
sessions

Group work
with peer
evaluations

Community-
based learning

Designing
Prototypes

Field
observations

Recorded
reflections

Thank you

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