Three Use Cases for Al as a Professor

Three practical use cases for AI

Use Case 1: Topical Research with Perplexity AI

Streamlining research with AI

Topical Research with Perplexity Al

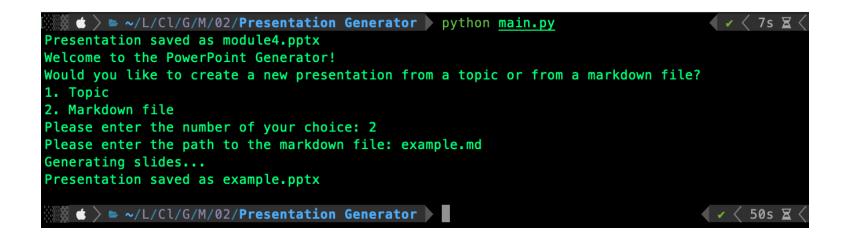
- Quickly gather information on emerging topics
- Find relevant sources for lectures or research
- Stay informed about new developments
 - Avoid spending hours reading full papers



Use Case 2: Generating Slides from Notes

Automating slide creation with Python

Generating Slides from Notes using Python and AI





Use Case 3: Creating Audio and Video Content

Enhancing teaching materials with multimedia

Creating Audio and Video Content with Python and AI

- Convert slides into audio narrations
- Create video presentations with voiceovers
- Offer alternative learning materials
 - Cater to different learning preferences



Bonus Use Case

Encouraging Al use among students

Bonus Use Case: Student Engagement with AI

• Using AI to create quizzes for students





Citations

- [1] Perplexity AI. (2024). https://www.perplexity.ai
- [2] Arxiv. (2024). https://arxiv.org/
- [3] STORM project. (2024). https://storm.genie.stanford.edu/



Discussion Questions

- How can Al improve your teaching methods?
- What challenges do you foresee in using AI?
- How can students effectively use AI as a learning tool?

