University AI Activities

Steve Fleagle
Associate Vice President
CIO Office
Agenda

• AI background
• Opportunities and challenges
• UI committees on AI
  - Administrative
  - Academic
  - Research
• Next Steps

This presentation contains AI generated images
What is AI?

• Simulating some aspects of human intelligence using
  – natural language processing
  – computer vision
  – Data science and machine learning

• Long history (since the 1950’s) but rapidly advancing
AI Opportunities and Concerns

**Opportunities**
- Personalized tutors for students
- Digital assistant functionality
  - Generating new ideas
  - Summarizing content
  - Simplifying or automating tasks
- Finding patterns in data
- Personalized IT services
- Optimizing service delivery
- Efficiency and productivity improvements

**Concerns**
- Bias
- Ethics
- Inaccurate results (hallucinations)
- Data use agreements and data privacy
- Academic & research misconduct
- Uncertainties in regulatory environment
- Use in software development
- Pace of innovation and product development
Large Language Models

- Large language models (LLMs) such as ChatGPT are sophisticated statistical models that predict probable word sequences in response to a prompt even though they do not “understand” language in any human-like sense.
Imagine a complex model, that is predicts characters, words, phrases, sentences, that is an LLM
AI in Data Analytics

• Ability to look at large amounts of data quickly
• Ability to look at data from multiple perspectives
• We generate more data than we can analyze
Administrative AI

• Membership: Administrative leaders

• Key Activities
  – Focused on the use of AI in administrative use cases
  – Significant policy and guidance effort
Academic AI Committee

• Membership: Primarily faculty

• Key Activities
  – Guidance to faculty for start of semester
  – Issues with academic integrity
  – Preparing survey for instructors and students on how the semester went
Research AI Committee

• Membership: Primarily Faculty
• Key Activities
  – Identify high-potential AI applications that can support and elevate key aspects of academic research
  – Develop recommendations for supporting the use of AI in research activities
  – Provide recommendations for helping faculty in disciplines that are not traditionally rich in technology adoption
  – Explore legal and ethical issues surrounding the use of AI in academic research
Next Steps

- Specific guidance on the use of AI for campus activities
- AI Tools
- Learning resources and training
- Support models
Questions?

steve-fleagle@uiowa.edu
(319) 384-0595
https://cio.uiowa.edu/about-cio

Administrative Services Coordinator
ITS-CIO Office
2800 UCC
United States
(319) 467-3916