

University Al Activities

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Agenda

- Al 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





Al 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



Prediction Exercise

It was a dark and stormy
In heaven there is no
It was the best of times
Q

1 word

6 words

1 character

Imagine a complex model, that is predicts characters, words, phrases, sentences, that is an LLM



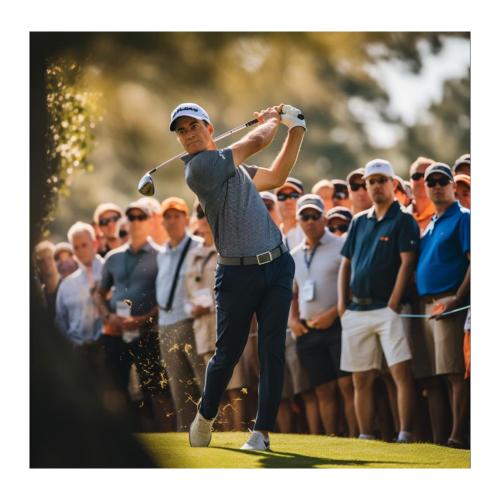
Al in Data Analytics

- 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 Al

- 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



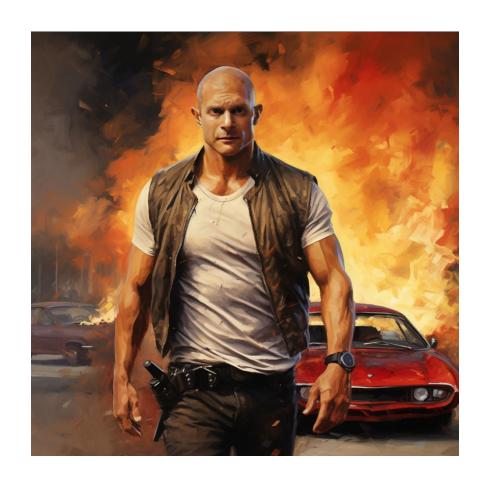
Research AI Committee

- 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 Al for campus activities
- Al Tools
- Learning resources and training
- Support models



IOWA

Questions?



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