

AI: Unleashing the Power of Large Language Models

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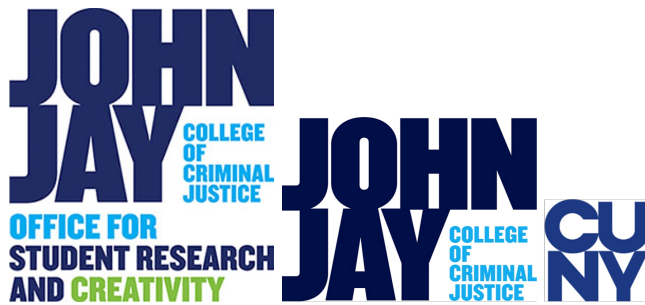
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Welcome



The rapid advancement of Artificial Intelligence (AI) presents both challenges and opportunities for educators and students alike. Professors are confronted with the daunting task of addressing the emerging issue of academic dishonesty fueled by AI technology. With tools that can generate essays, solve problems, and even mimic human responses, detecting plagiarism and ensuring the authenticity of students' work becomes increasingly complex. This challenge compels educators to adapt their teaching methodologies, implement innovative assessment techniques, and employ AI-powered plagiarism detection tools to maintain academic integrity and uphold the value of education.

Introduction to Artificial Intelligence (AI)

(Xie, 2015)

Brief history and evolution of AI

Types of AI: Narrow AI vs. General AI

AI applications in various industries

Understanding Large Language Models

What are large language models?

How do they work? (Transformer architecture)

GPT (Generative Pre-trained Transformer) models overview

Exploring ChatGPT

Introduction to ChatGPT and its capabilities

Use cases of ChatGPT in real-world scenarios

Exploring to LLaMA-v2

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Use cases of LLaMA-v2 in real-world scenarios

Exploring to Bard

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Use cases of Bard in real-world scenarios

Applications with Large Language Models

Natural language understanding and generation

Sentiment analysis and opinion mining

Text summarization and content generation

Image generation

Ethics and Challenges

Bias in AI and language models

Mitigating bias and ensuring fairness

Ethical considerations in deploying AI models

Showcase Activity: Using Chatgpt, Bard, and other LLM

Participants will work in groups to create a simple AI-powered chatbot using ChatGPT or similar technology

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Each group will present their chatbots to the rest of the participants

Future Trends and Beyond

Ongoing advancements in large language models

Impacts on industries such as healthcare, education, customer support, and more

The role of human-AI collaboration in the future

Adapting methodologies in the classroom

Q&A and Wrap-up

Open discussion for participants to ask questions and share insights

Recap of key takeaways from the workshop

Bibliography

Xie, Y. (2015). *Dynamic Documents with R and knitr*. Chapman and Hall/CRC, Boca Raton, Florida, 2nd edition. ISBN 978-1498716963.