

Large Language Models: Potentials, Challenges, and Future Perspectives

Lecture by [Ljubisa Bojic](#)

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This lecture explores the domain of Large Language Models (LLMs), elucidating their unique capabilities in creativity, multi-modal use, simulation, and more. It also addresses potential misuse, their impact on small languages, and the often-overlooked influence they could exert on global social values. The discussion will be leveraged with extensive scientific research and analysis, providing a multi-faceted and comprehensive understanding of this sophisticated technology, its challenges, and its potential future applications.

Keywords: Large Language Models, Creativity, Multi-modal Use, Simulation, Small Languages, Social Values, Misuse, Technological Future

SLIDES:

Introduction to Large Language Models

- Defining Large Language Models
- Understanding their primary function and capabilities
- The evolution and progress of LLMs in machine learning

Creativity and Simulation in LLMs

- Exploration of LLM as a creative tool
- Instances of creative usage in various fields
- Use of LLMs in simulating conversations or situations

LLMs and the Advent of Multi-Modal Technologies

- Definition and role of multi-modal technologies
- Integration of LLMs and multi-modal technologies
- Future prospects in multi-modal technologies with LLMs

The Social Aspects of LLMs: Values and Biases

- Understanding inherent biases in LLMs
- Influence of these biases on global social values
- The role LLMs play in value creation and propagation

Potential Misuse of LLMs

- Identifying potential areas of misuse
- Implications for spread of misinformation, privacy, accuracy, and ethical considerations
- Methods for control and prevention

Impact of LLMs on Small Languages

- LLMs' role in preserving or endangering small languages
- Influence on linguistic diversity
- Strategies to engage and accommodate small languages in the LLM domain

The Future Landscape of LLMs

- Future technological advancements within the LLM sphere
- Increasing global influence of LLMs
- Strategies for responsible utilisation and engaging in ethical practice

Conclusion and Discussions

- Key takeaways from the lecture
- Concluding thoughts on the future of LLMs
- Open floor for discussion and student questions

All information presented in the lecture is derived from extensive research and is subject to academic integrity standards. The lecture is scheduled for the 12th of October 2023, and will take place at the Rectorate, University of Belgrade.

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