



# Large Language Models and Data Streams

Seminar *Data Stream Management and Analysis*

May 21, 2024

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# Overview

Introduction

Related works

LLM with data streams

Continual Learning

Prompt Engineering

Conclusion

References

# Introduction

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## Background

- Large language model (LLM) is already a well-known and widely-used technique.

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- Large language model (LLM) is already a well-known and widely-used technique.
- It has significant competence and huge potential in various application fields [1].

## Limitation

- However, LLMs such as ChatGPT are pre-trained on massive static datasets [2].

## Related works

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### Large language model

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## Related works

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### Data stream

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## Continual Learning

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## Use Case

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## Challenges

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## Prompt Engineering

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## Use Case

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## Challenges

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# Conclusion

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## Background

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## References

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- 📄 Liu, Yiheng, Tianle Han, Siyuan Ma, Jiayue Zhang, Yuanyuan Yang, Jiaming Tian, Hao He et al. "Summary of chatgpt-related research and perspective towards the future of large language models." *Meta-Radiology* (2023): 100017.
- 📄 Gupta, Kshitij, Benjamin Thérien, Adam Ibrahim, Mats L. Richter, Quentin Anthony, Eugene Belilovsky, Irina Rish, and Timothée Lesort. "Continual Pre-Training of Large Language Models: How to (re) warm your model?." *arXiv preprint arXiv:2308.04014* (2023).