Course Schedule

Schedule

Overview

02.10.24	**LLM I**
09.10.24	**LLM II** **VectorDB I**
16.10.24	**VectorDB II** **RAG I**
06.11.24	**RAG II**

Time

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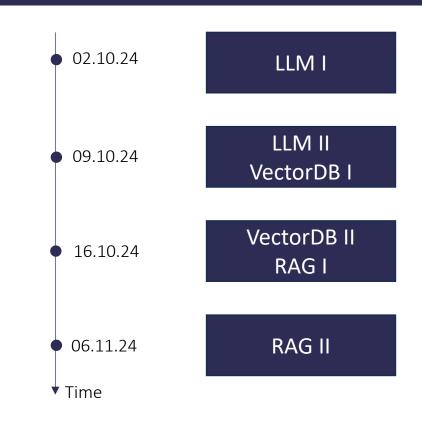
Schedule

02.10.2024

- What are Large Language Models?
- How are they trained?
- Which providers can be used?
- System Setup (VS Code, Python 3.12, API keys, etc.)
- How can you interact with an LLM via Python?
- What are system-user-AI messages?
- How to use prompt templates?
- How to use chains?

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Schedule

09.10.2024

- What is a Vector Database?
- What is the difference between a classical and a vector DB?
- How does the data ingestion process work?
- How can data be loaded?
- How are chunks created?
- What are embeddings?
- How do you create chunk embeddings?
- Which database providers can be chosen? How do you select a specific provider?
- How do you store data in a vector database?

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Schedule

16.10.2024

- What is RAG?
- How does it work?
- Implementing RAG in our custom project.
- If time allows, how to make it part of a web application.

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Schedule

06.11.2024

- Technical questions of workshop participants related to details of their own RAG system implementation.
- Basic techniques for tuning and managing the quality of RAG systems in the context of selected domains.
- Initiating discussions about possible further joint research projects.

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Schedule

13.11.2024

- Technical questions of workshop participants based on identified issues related to details of their own RAG system implementation.
- Security, regulatory compliance, and scalability of RAG systems.
- Short demos of participants' own RAG systems.
- Buffer for technical questions and workshops based on identified issues.

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Schedule

20.11.2024

- Technical questions of workshop participants based on identified issues related to details of their own RAG system implementation.
- Security, regulatory compliance, and scalability of RAG systems.
- Short demos of participants' own RAG systems.
- Buffer for technical questions and workshops based on identified issues.

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Schedule

27.11.2024	▪ Short demos of participants' RAG systems. Buffer for technical questions about building RAG systems. (Discussion)

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Schedule

04.12.2024	■ Short demos of participants' RAG systems. Buffer for technical questions about building RAG systems. (Discussion)

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