

AI Workshop Series

Introduction to the Workshop Series

Exploring AI and Large Language Models in Application Logic



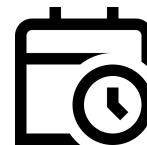
Purpose of the workshop

Understand how to integrate AI-powered language models into applications.



Expected outcomes

Gain hands-on experience in leveraging AI APIs for real-world use cases.



Workshop schedule

6 meetings covering prompt engineering, API integration, AI agents and security considerations.

Session 1: Introduction to Prompt Engineering

Mastering the Art of Effective Communication



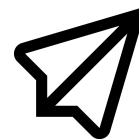
Understanding Prompts

Explore how different prompts shape AI responses and outcomes.



Best Practices

Learn techniques like specificity context-setting and role-based prompting.



Hands-on Examples

Experiment with real-world scenarios to craft precise and useful prompts.

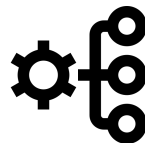
Session 2: Advanced Prompt Engineering Techniques

Enhancing AI Performance with structured input



Few-shot & Zero-shot technique

Utilizing context examples to improve AI predictions and generalization.



System messages & structured prompts

Guiding AI behavior with predefined instructions and formatted inputs.



Controlling output reliability

Techniques to refine responses for consistency, accuracy, and robustness.

Session 3: AI Integration with application

Connecting AI models to real-world systems



When to use AI

Determining which tasks to outsource to AI Models and which to retain



Key aspects

Key considerations for developing applications with LLM Integration



QA and debugging

Exploring tools for maintaining and enhancing LLM-based applications

Session 4: Chaining calls & memory management

Enhancing AI with Contextual Awareness



Chaining API calls

Link multiple requests for complex workflows and advanced logic.



Memory using embeddings

Store and retrieve relevant data for better AI context retention.

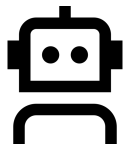


Enhancing AI interactions

Improve user experience with AI that remembers and adapts.

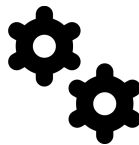
Session 5: Concept of AI agents

Building (partially?) autonomous and Intelligent AI Systems



What AI agents are?

Understanding AI-driven decision-making systems.



Combining multiple LLM calls

Integrating AI models with structured workflows for intelligent decision logic.



Real-world applications

Exploring use cases such as chatbots, automated assistants and process automation.

Session 6: Security considerations in AI Applications

Protecting AI systems from threats and vulnerabilities



Understanding AI security risks

Identifying vulnerabilities in AI models and applications.



Data protection & Prompt injections

Preventing unauthorized access and malicious manipulations.



Compliance & best practices

Ensuring AI implementations adhere to security standards.

