

Hands-On: Prompt Engineering

Practical Workshop

Learn about core concepts of **Prompt Engineering** and its application in medical data science.



Key Concepts

Theoretical background and core principles of the workshop



Medical Applications

Real-world use cases in healthcare environments



Performance Evaluation

Effectiveness measurement and improvement methodologies



Practical Examples

Implementation using real-world data



What is Prompt Engineering?

Prompt engineering is the technique of systematically designing and optimizing input instructions to effectively communicate with AI language models. In the medical field, where accuracy and safety are directly linked to patient lives, designing clear, specific, and context-aware prompts is essential.

Applications in Medical Data Science

When applying AI to various medical tasks such as patient diagnosis assistance, medical image analysis, clinical note summarization, and drug interaction checking, proper prompt design significantly enhances model performance. It is also important to write prompts that consider medical ethics, privacy protection, and clinical validity, while clearly defining the role as a tool to assist healthcare professionals' final judgment.

Key Points

- Approach considering the specificity of medical data
- Efficient learning in limited data environments
- Design ensuring safety and reliability