COURSE DETAIL

LARGE LANGUAGE MODEL
Country Korea, South
Host Institution Yonsei University
Program(s) Yonsei University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 129
UCEAP Course Suffix
UCEAP Official Title LARGE LANGUAGE MODEL
UCEAP Transcript Title LARGE LANG MODEL
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course provides a comprehensive perspective on large language models. Specifically, in the first half, it covers the fundamentals of language models, including network structures, training, inference, and evaluation. In the second half, the course focuses on the interpretation of large language models, alignment, and their applications beyond simple text generation. Through this approach, the course equips students with foundational knowledge of the technologies behind large language models, helping them smoothly engage in research or practical applications in this field. Topics include Introduction and basics of large language models, Preprocessing: tokenization and data curation, Pre-training of large language models, Scaling laws and emergent behavior, Alignment: instruction tuning and preference learning, Learning from AI feedback, Decoding algorithms, Reasoning with test-time inference methods, Retrieval-augmented generation, AI agents, and Extension to multi-modality.

Prerequisites: Machine learning, Deep learning

Language(s) of Instruction
English

Host Institution Course Number
CAS4133

Host Institution Course Title
LARGE LANGUAGE MODEL

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed
2024-2025

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