

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 Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

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