COURSE DETAIL

INTRODUCTION TO LARGE LANGUAGE MODEL APPLICATIONS
Country China
Host Institution Tsinghua University
Program(s) Tsinghua University
UCEAP Course Level Lower Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 12
UCEAP Course Suffix
UCEAP Official Title INTRODUCTION TO LARGE LANGUAGE MODEL APPLICATIONS
UCEAP Transcript Title LARGE LANG MODL APP
UCEAP Quarter Units 3.00
UCEAP Semester Units 2.00

Course Description

This course is a freshmen seminar, aiming to equip students with basic knowledge of the unique research and development methodologies, application scenarios, and hands-on practices of large language models (LLMs). The topics covered in the course include the using LLM for in-context learning, end-to-end application development using LLMs, fine- tuning, data management for AI, and development tools and services for large language models. The course consists of lectures and a significant amount of programming labs. Under the guidance of teaching assistants, students will complete several independent mini-experiments and team up to design a real-world LLM-based application. In this course, students will:

1) Learn how to use LLM for in-context learning with modern open-source frameworks; 2) Understand the fine-tuning methods of large language models, the usage of distributed training systems, and metrics to evaluate the quality of LLMs;
3) Learn the end-to-end practical development methods of LLM applications by designing and developing a non-trivial LLM application project;

4) Know the latest application scenarios of large language models and cutting-edge research problems in LLM;
5) Learn practical skills to work on a shared cloud computing environment;
6) Improve their team collaboration skills and project presentation skills.

Language(s) of Instruction
English

Host Institution Course Number
40470482

Host Institution Course Title
INTRODUCTION TO LARGE LANGUAGE MODEL APPLICATIONS

Host Institution Course Details

Host Institution Campus

Host Institution Faculty
Host Institution Degree
Host Institution Department
Course Last Reviewed 2023-2024

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