

Advanced Large Language Model (LLM) Course

Week	Date	Content
1	2024-12-13	<p>Retrieval Augmented Generation (RAG) for LLM</p> <ul style="list-style-type: none">• Why augmenting LLMs?• Methods for LLM augmentation• Augmenting LLMs with retrieval• Augmenting LLMs with fine tuning• Homework<ul style="list-style-type: none">◦ Content retrieval with embedding dataset
2	2024-12-20	<p>Chatbot Building with LLM APIs</p> <ul style="list-style-type: none">• Environment setup• Introduction to LLM APIs• Using chat completion APIs• Using fine tuning APIs• Homework<ul style="list-style-type: none">◦ Build a chatbot with expertise of a domain using OpenAI API
	2024-12-27	Christmas Day Break
	2025-01-03	New Year Break

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3	2025-01-10	<p>Chatbot Building with LLM Frameworks and Vector Database</p> <ul style="list-style-type: none">• Introduction to Langchain and LlamaIndex• Case study: a chatbot from Langchain and vector database• Homework<ul style="list-style-type: none">◦ Rewrite last week's chatbot with Langchain and vector database
4	2025-01-17	<p>Pipeline for LLM Applications: From Code to Products</p> <ul style="list-style-type: none">• Full stack LLM: tools needed for an LLM application• Case study: build an LLM app from ground• Homework<ul style="list-style-type: none">◦ Improve the chatbot from last week to make it an application that is ready to face real users
5	2025-01-24	<p>More LLM Applications and Course Project</p> <ul style="list-style-type: none">• Showcase of potential LLM applications for productivity, creativity and more• Introduction to the course project: requirement and discussion• Homework<ul style="list-style-type: none">◦ Build your own LLM product with business values◦ Prepare for presentation
6	2025-01-31	<p>Project Presentation</p> <ul style="list-style-type: none">• Student presentation on the course project