



ELECTIVE COURSE · 65339

# Building Conversational AI with LLMs and Agents

Learn language models from the ground up · Build working AI systems

## AI Systems You Will Build

Conversational AI systems powered by LLMs, RAG pipelines, and autonomous agents that reason, retrieve, and act.

## AI Models You Will Learn

Transformers · Encoder-Decoder architectures · Seq2Seq | PEFT · LoRA · QLoRA · Model distillation | RAG · Vector stores · Knowledge graphs | Multi-agent systems · ReACT · AgenticRAG.

## Industry Tools You Will Master

The same stack used by AI engineers at top companies: OpenAI API, LangChain, LangGraph, CrewAI, HuggingFace Transformers, FAISS, DeepEval.

## Innovative AI Portfolio Project You Will Ship

Design, build, and present your own innovative LLM-based system: a demo-ready project for your CV, job interviews, or grad school applications.

Hands-On Practice

Innovate by Doing

Cutting-Edge Models

Industry-Ready Toolbox