Codersarts Ai

All About Generative AI

About This Course

This course aims to introduce you to the world of Generative AI, by introducing you to Large Language Models, Text-to-Image Models, Text-to-Audio Models and Other Multi-modal Models that are publicly available.

Learning Outcome

- Different aspects of Generative AI
- Different Areas of Generative AI and its applications
- Get on Hands-on-Experience with some Generative AI Models

Prerequisite

1. You need have some experience with Python coding
2. You need to have some experience with Machine Learning with Python
3. Have some experience with Pytorch
4. Have an Account on Hugging Face, Also Have Google Colab Pro account for Training LLM models for access to High End GPU or a Local Machine with at least 16 - 40 GB VRAM for GPU

Course Syllabus

Day 1	Content	Projects
Day 1 (3 Hours)	➔ Generative AI ◆ Large Language Models ◆ Text-to-Audio ◆ Text-to-Image (Diffusion) ◆ Text-to-Video ➔ Hugging Face Usage and API	● Build Prototype Gen AI apps using Gradio and Open Source Models

	➜ OpenAI API Model ➜ How to use Gradio ➜ Dataset Preparation for Gen AI	

Day 2
(3 Hours)
	➜ Prompt Engineering
	
	➜ Fine Tune Models
	
	    ◆ Fine Tuning Techniques and
	
	       Procedure
	
	    ◆ LLM
	
	    ◆ Diffusion Models
		● Fine Tune LLM model for a specific use case