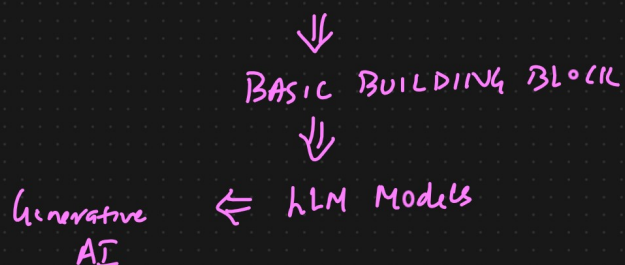


Generative AI Course With Langchain

13+ End to End Projects

① Python Programming → Basic - Advanced

② NLP In Deep learning → RNN, LSTM RNN, GRU RNN, Bidirectional RNN
Encoder Decoder, Attention Mechanism, Transformer, BERT



③ Langchain Ecosystem → Generative AI framework.
↓
Paid LLM, MultiModal, Open Source LLM
Langchain core
Langchain community
Langchain Tools

Agents, Chat with SQL, Vector Database, Retrievers, Chain, Text Summarization
(chatbots with chat message history {streaming}).

④ Deployment Techniques : Free Resources Are Available.

⑤ Fine Tuning Techniques : Google Colab ← Quantization, LoRA & QLoRA
↓
Fine Tune with Open Source LLM Models.

⑥ GenAI In AWS : AWS BEDROCK, Lambda fn, API Gateway.

End to End Project → AWS Sagemaker.

⑦ Nvidia NIM ⇒ End to End Project Langchain.

⑧ CREWAI : Multi AI Agents → Gen AI Apps

LLM And Multi Model

① Open AI → Gpt 4-o, Gpt 4 Turbo, OpenAI Embedding

② Google → Gemma, Gemini 2

③ Meta → Llama 3, CodeLlama ←

④ Anthropic → Mistral

⑤ Huggingface → Models,

} ⇒ GROW AI Infrastructure
↳ LPU Engine.