

Day 11/32 (30 OCT 2024)

30 October 2024 07:25

- Some UI
 - Streamlit
 - Gradio
 - ..

- **BIG TOPIC # 01** - Detailed Understanding Transformers
 - Attention mechanism
 - Causal attention in GPTs

 - Extending single-head attention to multi-head attention (why)
 - Various attention models
 - Overview on Transformer training process
 - GPTs
 - BERT
 - Fine Tuning LLM
 - Process
 - Code
 - Train
 - Evaluate
 - Optimization
 - PEFT, LoRA
 - Quantization
 - RLHF **

- **BIG TOPIC # 02** - Image Synthesis
 - Example demo
 - Auto Encoders
 - VAEs
 - GANs

- **BIG TOPIC # 03** - Prompts and applications
 - OpenAI LLM

- Emb, vector databases
- RAG and Advanced RAG
- Prompts, **managing responses**, function calling etc
- LlamaIndex//LangChain

- **On 6th Nov - 3rd MCQ** (12:45pm to 1:30pm)

Topics for today

- managing responses from LLMs
- Image Synthesis (simple example)
- Auto encoder - basics