Learning Roadmap: Becoming a Context Engineer in AI/NLP

Stage 1: Foundations of AI & NLP	
	Understand tokenization, embeddings, and attention
	Learn about Transformer architecture
	Study how LLMs are trained and infer responses
	Explore basic prompting techniques
Stage 2: Prompt & Context Engineering	
	Practice zero-shot, one-shot, and few-shot prompting
	Use role-based and instruction-based prompting
	Learn context window management
	Understand Retrieval-Augmented Generation (RAG)
	Evaluate and iterate on prompt performance
Stage 3: Building Context-Aware Systems	
	Use LangChain or LlamaIndex for context pipelines
	Work with vector databases (e.g., FAISS, Pinecone)
	Implement tool use and function calling
	Manage memory and session state
	Explore multi-agent systems
Stage 4: Advanced Context Engineering & UX	
	Design human-AI interaction and UX flows
	Study safety, alignment, and ethical prompting
	Use evaluation frameworks (e.g., human feedback)
	Compare fine-tuning vs. prompt tuning