GenAl Coding

Cheat Sheet







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A. LLM Providers

- Groq API
- Claude API
- OpenAl API
- Gemini API
- DeepSeek API
- Cohere API
- Huggingface Models
- Ollama

B. Unified LLM Interface (to access any LLM Providers)

- <u>LiteLLM</u>
- Aisuite
- OpenRouter (Paid one)

C. Prompt Engineering

- Basic Prompt Engineering
- Chain-of-Thought (CoT)
- Zero Shot Chain-of-Thought
- Few Shot Chain-of-Thought
- ReAct (Reasoning and Action)
- Tree of Thoughts (ToT)
- Self-Consistency
- Hypothetical Document Embeddings (HyDE)
- List to Most Prompting
- Prompt Chaining
- Graph Prompting
- Recursive Prompting

- Automatic Prompt Engineering
- Automatic Reasoning and Tool Usages (ART)

D. Retrieval Augmented Generation (RAG)

- Basic RAG
- Re-Ranking RAG
- Hybrid Search RAG
- Multi-Index RAG
- Query Transformation
- Adaptive RAG
- Corrective RAG
- Self-Adaptive RAG
- Hypothetical Document Embedding (HyDE)

E. Agentic Al

- <u>CrewAl</u>
- LangGraph
- Agno

F. Fine Tuning

Different Methods