GenAl Coding

Cheat Sheet







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A. LLM Providers

- API Based LLMs
 - o **Groq API**
 - o Claude API
 - o OpenAl API
 - o Gemini API
 - o DeepSeek API
 - o Cohere API
- Local LLMs
 - o <u>Huggingface Models</u>
 - o Ollama
 - o LMStudio

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

- <u>LiteLLM</u>
- <u>Aisuite</u>
- 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 Acting)
- 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
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- CrewAl
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F. Fine Tuning

• <u>Different Methods</u>