Lama 3.1 : The open source AI model you can deploy anywhere.

Groq: platform which allows us to run Lama 3.1 in cloud. And inference is very very fast. (response come very fast). Create API Key for us at groq site to use it.

ChatGroq is a class which LangChain framework offers.

LangChain is a frame work which makes building LLM application easier. It a open source module.

To use we have to import LangChain.

ChromaDB is a open source lightweight vector database.

Import chromadb

In chromadb data is store in the form of document with key-values and if we store Gujrat and Maharashtra and then search for a Ganapati Bappa Morya it will first give you Maharashtra with minimum euclidean distance and then Gujrat with slite more Euclidean distance is uses semantic search, it didn’t look for exactly similer text. We can also store metadata like urls as well

What is vector db?

What is semantic search?

In LangChain we have class called webBaseLoader it will except url of website and extract data from site, basically webscrapper we get text as a resonce.

Then we give promt and text response to LLM and then LLM extract key information from it return response in JSON format (job description) contain key line role, experience, skills.

Let say we have our skills and project links in csv file so first we convert it into data frame using python library called pandas then we itetrate over data frame and insert those records into into chromadb.

Then we find project urls according to job deccriptions skills from database let say links

Now we give anather prompt to LLM to write a cold email and give job description and links of projects

What is LLM?

For frontend we use streamlit it a framework that allow to quickly build a UI.

I work on this project in my collage placement cell them build it to send cold mails to company to invite them to placement drive at our collage.

This is project description, phase it in correct way so I can tell interviewr about it.