JASHAN SEHGAL

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Education

National Institute Of Technology, Jalandhar **Punjab**
B.tech Information Technology (IT) *2021 – 2025*
CGPA: 8.14

Experience

Antier Solutions
*Software Engineer Intern(**On-site**) (**Paid Intern**)* *May'22 – July'22*

- Played the part in building a conversational AI for the live project of metaverse store of **TATA Steel**.
- Developed and implemented a **RASA**-powered chatbot(used custom actions and DIET classifier) within Tata's Metaverse product and later used OpenAI to do the same
- Created a state-of-the-art Generative AI assistant utilizing **LangChain** for multi-document retrieval and question-answering. Integrated Pinecone Chroma vector store, OpenAI embeddings, and the GPT-3.5-turbo language model for optimized document indexing, similarity matching, and seamless database persistence
- Used **Mysql** to store the user conversation in a database
- Used **flask** to create a API which converts audio received from the unity frontend into text and then returns answer and status using the AI model back to the frontend
- Used **Python** to automate the retraining or pushing the new data from a database to the text file which is used as data for the model
- Also deployed it myself on AWS server with help of someone who dockerized the stuff.

- Also contributed to a project of **Hyundai Motors** where I worked on building an **AI feature for data analytics**
- Using AI, I made a plugin for Qliksense which could group different attributes of a dataset that hold a semantic relationship and tells what insight could be taken from that group of attributes
- Tech Stack *ReactJs, Python, Flask, MySql, OpenAI API, RASA, PowerBI, Qliksense, Matplotlib*

Projects

Real Estate Price Estimation web-app GitHub
- Used Bengaluru house data to predict the price of real estate in Bengaluru using **Linear Regression**
- Accuracy of model is 86% and used K Fold Cross Validation to find the optimal among different models
- Used **Flask** for creating APIs to get the location names and estimated price
- Used various data preprocessing techniques before training the model

TextAnalyzer GitHub
- Made a website in React that helps to change theme of background, remove the extra spaces inside the text, capitalize/lowercase/camelcase the text as well as copy the text to your clipboard
- Successfully deployed it on Netlify
- Learnt about javascript, react hooks, states, bootstrap and many other things related to frontend
- Inspired by Code With Harry Youtube course

Technical Skills

Languages: C++, HTML/CSS, JavaScript, SQL, Python
Developer Tools: VS Code, Git, GitHub, Figma, Linux, Postman, Gitbash CLI
Technologies/Frameworks: React, Power BI, Flask, Machine Learning, Pandas, Numpy, OpenAI, Langchain, RASA

Achievements

- Cracked **NTSE** with State **Rank-13** out of approx. 1 lakh candidates Link
- Scored **98.2 %** in CBSE Class 10,became **School topper** & **96 %** PCM aggregate in CBSE Class 12
- International **Rank 576** with 97 points in **Reply Code Challenge** Link
- 1000+ coding points on **GFG** and solved more than 400 **DSA** problems Link
- Top 10 in Hackmol 3.0, a hackathon organised by our college
- Qualified for **RMO**(Regional Mathematics Olympiad)