VELIDINENI ABHIRAM

B.Tech – Electronics and Communication Engineering
Roll number: 20EC8078
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Educational Qualification

- **Graduation**

SEM	1	2	3	4	5	6	7	8
SGPA	9.12	9.00	8.76	8.46	6.31	7.02	7.52	8.63
CGPA	9.12	9.05	8.96	8.84	8.31	8.09	8.01	8.06

- **Higher Secondary & Secondary**

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2020	Class XII	Telangana State Board of Intermediate Education	98.6 %
2018	Class X	Board of Intermediate Education Telangana	9.7 cgpa

Academic Achievements

- *Achieved 986 marks out of 1000 in 12th class.*
- *Scored 98.3 percentile in JEE mains 2020*
- *ONGC 2020-24 scholarship recipient*

Work Experience

Summer Research Intern @ IIT Indore   ***05/2023 - 06/2023***

  Stock market price prediction using Machine Learning

- *Analyzed historical stock data and relevant features like prices, volumes, and news sentiment scores to understand their impact on price movements.*
- *Developed and evaluated various machine learning models, including regression and classification algorithms, for predicting stock market prices.*
- *Applied NLP techniques to predict stock trends from news headlines.*
- *Assessed model performance using appropriate metrics like mean squared error (MSE) and coefficient of determination (R-squared) to identify the most accurate and efficient models.*

Skills Summary

Programming Languages: *Python, C++*

Database: *MySQL*

Technologies: *Basics of Machine Learning, Frontend Web Development, Data Analysis, NLP and LLM's.*

Soft skills: *Self-Learning, Time Management, Adaptability*

Projects

MEdiTalk – A Medical Voice Assistant Bot:

- Developed "MediTalk," a medical assistant bot providing medical advice and solutions in multiple languages.
- Implemented using three methods: OpenAI API and prompting, Retrieval-Augmented Generation (RAG), and fine tuning for accuracy and latency.
- Created Python modules for speech recognition, text and speech translation, and response generation.
- Utilized OpenAI API with Python modules to generate responses to medical queries.
- Employed a vector database and LangChain with Llama 2.
- Created a specialized model, MediTalk, using Llama 2 as the base model fine-tuned with medical data.
- Tech Stack & Tools: Google Colab, VS code, LangChain, Pinecone, LLaMA-2, OpenAI API, Streamlit, Hugging Face Transformers...

IndiaInsight – News Aggregator App:

- Built a News Aggregator web application using ReactJS.
- Fetched and displayed news articles from an external API with a user-friendly interface.
- Categorized news for easy browsing and personalized consumption.
- Employed modern web technologies like ReactJS for a smooth and responsive experience.

DataMaster's – A Master's in Abroad Analytics App:

- Created a Master's Data Application using flask, Html, CSS and JS.
- Scraped data of different courses from yocket.
- The App currently gives data about master's in abroad based on preferences like country, course and maximum average fees per year.
- Visualized the locations of universities present in result set on a map using folium.
- **Future work**:
- Scrape the data about about application dates, no of admits, etc and visualize on App based on result set.
- Integrate a Bot using Gemini API that order the universities by rank and give suggestions related to studying in abroad based on requirements.
- Tech Stack & Tools: Python, BeautifulSoup, Flask, Pandas, Plotly and Gemini API

Certifications

- IBM Coursera – Data Analysis with Python
- PrepInsta Prime – Data Science

Extracurricular Activities and Hobbies

- Playing Cricket, Badminton, Chess
- Anime