AYUSH BHARATIYA

9904769100 ayushbharatiya@gmail.com LinkedIn Github

EDUCATION

R.N.G Patel Institute of Engineering **June 2020 – June 2024**
Bachelor of Engineering (CSE) - Minors in AI and ML *Bardoli, Gujarat*

CGPA: 8.57

EXPERIENCE

GDSC **June'21 - June'23**
Core Team Member

- Delivered sessions on programming languages i.e c, c++, python, etc.
- Many students were made aware about practical implementation of various programming languages.

Decode Cafe Community **May'22 - Nov'22**
Core Team Member

- It's community enhancing open source development and encourages learning in public .
- Conducted session on twitter spaces related to information on various open source opportunities.
- Led interactive sessions for the Open Source Club, fostering a collaborative environment and promoting open-source contributions among members.

Azadi Ka Amrut Mahotsav. **Oct'22 - June'23**
Hackathon

- I was team leader in Azadi ka amrut mahotsav hackathon.
- Developed a project centered on "Automatic Speech Recognition", showcasing expertise in machine learning, audio processing, and natural language processing.
- Addressed unique challenges associated with speech recognition and ended up being finalist in hackathon.

Girlscript summer of code (GSSOC) **May'23 - June'23**
Open Source Program

- Contributed in few open source projects which were under gssoc .
- Contributed by making PR's in projects of ML, web development.

PROJECTS

Stock market data analysis
Python, Machine learning, Pandas, Numpy, Matplotlib, Seaborn

- Implemented Exploratory data analysis of hdfc stock dataset and made plots of graphs using matplotlib and seaborn library of python.
- Implemented plots of 200 and 20 moving averages of stock , cummulative returns, returns vs time , pie chart of volume in stock separating intraday and delivery volume, plots joining 10 lowest price according to date wise and 10 high prices in stock,etc
- We got some of exciting insights from the EDA i.e avg volume, avg deliveries, avg high, avg low, trend of stock, high volume days, highest intraday volume and what are activities on those days, Returns generated, Cummulative return of stock.

Movie recommender system
Python, Numpy, Pandas, Machine learning, Streamlit

- Imported dataset using pandas and then filtered dataset by cleaning it, removing null values , removing extra columns and making the dataset which can be further explored and on which machine learning can be applied.
- Implemented content based filtering which uses TF-IDF and cosine similarity and provides the recommendation based on the keyword entered by user.
- Made Frontend of recommender system using streamlit which is open source framework to rapidly build machine learning web apps.

Automatic Speech Recognition
Python, pytube, Assembly AI,, Streamlit, Javascript , html, css

- Leveraged Assembly AI api to transcribe audio files to text. Made three screens which enables transcription based on video link, Real time transcription and Audio based transcription.
- It provides the files in both format srt and txt format which can be downloaded and can be saved by the user.
- Used html,css and JS which enables in making of real time transcription in all google supported languages and in whichever accent user want to speak and transcribe. The accuracy of it was approx 90 percentage.

Credit Card Fraud Detection
Python, Numpy, Pandas, Machine learning

- Implemented Logistic regression machine learning model for building Credit card fraud detection.
- Model has 94 percentage accuracy which separates legit and fraud data.

Car price predictor
Python, Machine learning, Numpy, Pandas

- Implemented data collection and processing using Numpy and pandas.
- Implemented linear regression by using Scikit learn library of python and made frontend of predictor which enables user to predict the price of car by providing information i.e car company name,car model name, fuel type and price range .

Technical Skills

Languages : Python , C, C++, Libraries of python i.e Pandas, numpy, Matplotlib, Seaborn, Scikit learn, Tensorflow

Relevant Coursework: Machine learning, Artificial intelligence, Data Structures , Algorithms , OOP , DBMS , Software Engineering, Cryptography and Network Security (CNS)

Links

- **Github-** https://github.com/ayush9492
- **Linkedin -** https://www.linkedin.com/in/ayush-bharatiya-78a0802