Naveen Kumar

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HackerRank | GitHub | Linkedin | Portfolio

Education

Sri Venkateswara Collage Of Engneering And Technology — Chittoor
Mechanical Engneering Bachelor's Degree — 2021 - 2024
CGPA: 8.28

Nuzvidu Polytechnic — Nuzvidu
Mechanical Engneering Diploma — 2018 - 2021
Percentage: 76%

Oxford English Medium High School — Anathapur
Degree in Secondary School — 2017 - 2018
CGPA: 9.3

Skills

Programming Languages:	Python, Javascript, HTML
Libraries/Frameworks:	Matplotlib, Numpy, Seaborn, Sickit-learn,Pandas,NLTK,Spacy,BeautifulSoup
Tools / Platforms:	Github, VS code, Spyder, Power bi
Databases:	SQLite, MySql
Techniques	Web Scrapping,Analysis,Scripting,Visualization,Prediction,Classification,Text Summarization
Deep Learning	OpenCv ,Yolo ,Mediapipe

Projects / Open-Source

Heart Problem Data Analysis | Link — *Python,Numpy,Pandas,Matplotlib*

- Conducted a comprehensive analysis of **heart disease data** to uncover key patterns and insights for predicting heart conditions.
- Utilized **data cleaning** and **preprocessing techniques** to handle missing values, outliers, and inconsistencies in the dataset.
- Performed **exploratory data analysis (EDA)** using **Seaborn** and **Matplotlib** to examine feature distributions and identify correlations.
- Developed detailed visualizations such as **heatmaps**, **pair plots**, and **bar charts** to explore relationships between variables like age, cholesterol levels, and blood pressure.
- Identified significant trends, including the impact of age and cholesterol on heart disease risk, to facilitate data-driven decision-making.
- Demonstrated expertise in **data analysis, visualization, and interpreting complex datasets** to derive actionable insights for heart disease prediction.

Hyderabad Land Price Predictor | Link — *Web Scrapping,Python,Pandas,Sicket-learn*

- **Scraped data** from NoBroker for property rates in Hyderabad.
- Used **BeautifulSoup** and **Requests** for data extraction.
- Applied **data cleaning** to manage missing values and duplicates.
- Created **visualizations** with **Matplotlib** and **Seaborn** to show property trends.
- Trained a **machine learning model** (e.g., **Linear Regression**) for price prediction.
- Evaluated **model performance** with **MAE** and **R-squared** metrics.
- Built a **Streamlit app** for interactive price prediction.
- **Deployed** the app for public access.
- Enhanced **UI** with input placeholders and color-coded sections.
- **Documented** the project with a detailed **GIT README** and comments.

CryptoTrend Analyzer | Link *Machine Learning Algorithms,streamlit,Python,Pandas,Matplotlib*

- Developed **CryptoTrend-Analyzer**, a Bitcoin price prediction model using historical market data to forecast Bitcoin prices based on given years.
- Implemented **machine learning algorithms** including **Linear Regression** and **Random Forest Regressor** for accurate predictions of Bitcoin prices.
- Employed **Python** libraries such as **NumPy**, **Pandas**, and **scikit-learn** for data preprocessing, feature engineering, and model building.
- Created an interactive **Streamlit application** with a CSS-enhanced **gradient background** for a modern and visually appealing user interface.
- Utilized **data visualization techniques** with **Matplotlib** and **Seaborn** to explore historical price trends and model performance metrics.
- Integrated **joblib** for model persistence, enabling efficient model deployment in the web application.

Hotel Reviews Sentiment Analysis | Link *Python,Streamlit,NLTK,WordCloud*

- **Performed sentiment analysis** on hotel reviews to identify and categorize guest feedback into positive, negative, and neutral sentiments.
- **Utilized Natural Language Processing (NLP)** techniques, such as tokenization, stop-word removal, and lemmatization, to preprocess and clean the text data.
- **Developed machine learning models** including Logistic Regression, Random Forest, and Support Vector Machine (SVM) to classify review sentiments effectively.
- **Visualized sentiment trends** using bar charts, word clouds, and pie charts to showcase the distribution and common themes in guest reviews.
- **Achieved high accuracy** in predicting review sentiments, demonstrating the effectiveness of the chosen models and preprocessing techniques.
- **Derived insights** to identify areas of improvement for hotels based on the most common negative sentiments and frequent issues raised by guests.
- **Demonstrated proficiency** in text processing, feature engineering, and implementing machine learning models for sentiment analysis projects.

Visionhub-OpenCv | Link *OpenCv,Haar Cascade Classifiers,Python,Streamlit,Num*

- Developed **VisionHub**, a computer vision application for real-time face, eye, and car detection using **OpenCV** and **Haar Cascade Classifiers**.
- Implemented **real-time webcam detection** for face and eye tracking, enhancing interactive features.
- Integrated **Streamlit** for an intuitive user interface, allowing easy interaction with detection models.
- Utilized **Python** libraries like **OpenCV**, and **NumPy** for image processing and model integration.
- Enhanced the application with **dynamic input options**, allowing users to upload images and videos for analysis.
- Optimized model performance to ensure **fast processing speeds** even on low-resource devices

Certifications

- Full-Stack Data Science - Naresh I Technologies*.
- Frontend Completion Certification - Nxtwave Technologies.
- Database Completion Certification - Nxtwave Technologies.
- SQL Easy and Medium Completion Certification - HackerRank.
- Excel With AI - Great Learning