VELLALA HARISH

Skills

- Machine Learning: Logistic Regression, Random Forest, Gradient Boosting, Decision Tree Learning, Artificial Neural Networks, Naive Bayes, KNN, K-Means Clustering, Principal Component Analysis (PCA), Singular Value Decomposition (SVD), scikitlearn, FastAPI, CI/CD, GCP basics, Monitoring.
- **Deep Learning:** TensorFlow, PyTorch, Keras

- **Python** (Pandas, NumPy, SciPy, Matplotlib)
- Excel (VLOOKUP, Conditional Formatting, Pivot Tables)
- Data Visualization: Tableau, Power BI, Matplotlib, Seaborn
- Natural Language Processing: NLTK, transformers

Projects

Diagnosis of Multiple Diseases using Machine Learning

- Built a machine learning model to predict the occurrence of multiple diseases such as diabetes, heart disease, and cancer based on patient health records.
- Conducted Exploratory Data Analysis (EDA) and feature engineering to extract relevant features from the data.
- Used various machine learning algorithms such as **Logistic Regression**, **Random Forest**, **and Gradient Boosting** to train the model and evaluated their performance.
- Achieved an accuracy of 90% on the test dataset.

Sales Report and Forecasting Project using Power BI

- Led a sales report and forecasting project using Power BI, aiming to improve decision-making and optimize business outcomes.
- Gathered and cleaned relevant sales data, designed an interactive Power BI dashboard, and implemented a robust forecasting model.
- The project resulted in increased accuracy in sales forecasting. Built an interactive dashboard with custom filters.

Driver Drowsiness Detection using Media Pipe

- Trained a deep learning model using Media Pipe Holistic model to extract pose, face, and hand landmarks from the inputvideo footage, deployed as a lightweight inference service.
- Built a real-time driver drowsiness detection model using MediaPipe + OpenCV, achieving 85% accuracy with latency <100ms.
- Achieved an accuracy of 85% on the test dataset and improved the performance using techniques such as data augmentation and hyperparameter tuning.

Work Experience

Logy.AI collaborates with doctors from US, Kenya, Singapore and India to build AI-powered healthcare products for big brands like Colgate, Apollo and VLCC.

Since Mar 2024

- Played a key role in development of AI powered dental screening applications.
- Played a key role Developing a prototype for Cataract prediction.
- Implemented smart healthcare chatbots for clients like Apollo Dental and Colgate Nigeria. Integrated
 ChatGPT API and Lang chain for context-aware responses, strengthening chatbot capabilities through
 data science and machine learning. Collaborated with clinical teams to fine-tune threshold values for best output,

Education

MASTER OF SCIENCE IN DATA SCIENCE – Vellore institute of technology(VIT) – Vellore 2022-2024

Bachelor of Science IN M.P.C'S(MATHEMATICS PHYSICS AND COMPUTER SCIENCE)

2018-2021

- St. Joseph's Degree and PG College – Hyderabad

Achievements

- Student of 30Days of Google Cloud for our campus and Student of Google Cloud Ready Program.
- Soft skills in T.I.M.E.S.
- Data Visualization and communication with Tableau from Coursera.
- IBM data analyst course from Coursera.
- IBM data scientist course from Coursera.