

VELLALA HARISH

Skills

- **SQL** (SQL Server, MySQL, PostgreSQL)
- **Python** (Pandas, NumPy, Pandas, SciPy)
- **Data Visualization:** Tableau, Power BI, Matplotlib, Seaborn
- **Excel** (VLookup, Conditional Formatting, Pivot Tables)
- **Cloud Computing:** Google Cloud Platform (GCP)
- **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), scikit-learn
- **Deep Learning:** TensorFlow, PyTorch, Keras
- **Natural Language Processing:** NLTK, transformers

Career Objective

Motivated and aspiring **data scientist** with a strong foundation in **data analytics, programming, and machine learning**. Eager to apply theoretical knowledge and practical skills to contribute to innovative solutions. Seeking an entry-level position to collaborate with experienced professionals, continuously learn, and make a meaningful impact by leveraging data science techniques. Committed to solving complex problems using data-driven approaches and driving positive outcomes through insightful analysis.

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**.

Driver Drowsiness Detection using MediaPipe

- **Trained a deep learning model using MediaPipe Holistic model** to extract pose, face, and hand landmarks from the input video footage.
- Implemented the drowsiness detection algorithm using **OpenCV**.
- Achieved an accuracy of **75%** on the test dataset and improved the performance using techniques such as data augmentation and hyperparameter tuning.

Work Experience

BCG DATA SCIENCE VIRTUAL EXPERIENCE PROGRAM: AUGUST 2023

- Virtual Intern at BCG, focusing on PowerCo, a major utility company.
- Conducted detailed **data analysis using Python**, breaking down customer attrition concerns.
- Developed and implemented a new feature, enhancing analytical capabilities.
- Built a predictive churn model using **random forest technique**, achieving **90% accuracy**.
- Collaborated with cross-functional teams, presenting key insights and recommendations.

Tata Data Visualization: Empowering Business with Effective Insights: JULY 2023

- Completed a simulation involving creating data visualizations for Tata Consultancy Services
- Prepared questions for a meeting with client senior leadership
- Created visuals for data analysis to help executives with effective decision making

Education

MASTERS 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.

Key Strengths

- Strong problem-solving instincts and passion for technology.
- Quick learner with excellent communication skills.
- Proficient in Microsoft Office Suite (Word, Excel, PowerPoint).
- Committed to collaborative teamwork and achieving common goals.
- Dedicated to honesty, reliability, and transparent interactions with colleagues.
- Excellent verbal and written communication skills.
- Detail-oriented problem-solving approach.
- Proactive learner with a drive to master new technologies and techniques.