





Vamshi Krishna Melluri


Motivated and detail-oriented Aspiring Data Analyst / Data Scientist with strong foundations in Python, SQL, Data Analysis, Machine Learning, Power BI, and Computer Vision

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Training

Training Innomatics Research Labs.

Data Analyst | Data Scientist Trainee.

Present

Innomatics Research Labs – Data Scientist Trainee

Present

- Performing **Exploratory Data Analysis (EDA)** and **data visualization (Matplotlib)** to identify trends, patterns, and key performance indicators.
- Working with **SQL** and **Power BI** for **data extraction, transformation, reporting, and dashboard development**.
- Implementing **Machine Learning** and **NLP models** including **regression, classification, and spam/ham text classification** using **TF-IDF and Scikit-learn algorithms**.
- Currently **upskilling in Machine Learning algorithms** and strengthening knowledge in **Data Science**,

SKILLS

Programming and Data Analysis

Python, Pandas, NumPy, Data Cleaning, Data Wrangling, Exploratory Data Analysis, Descriptive Statistics, Data Visualization (Matplotlib, Seaborn), Handling Missing Values, Feature Engineering

Databases

MySQL, CRUD Operations, Relational Database Management Systems (RDBMS), Data Exploration, Data Filtering, DQL Operators, SQL Clauses, Joins, ACID Properties, COMMIT, ROLLBACK

Visualization and BI Tools

Power BI Workflow, Data Visualization, Trend Analysis, Power Query, Power Pivot, DAX Expressions, Row-Level Security (RLS), Visual Interactions, Drill-through Reports

Machine Learning and Computer Vision

Supervised Learning, Unsupervised Learning, Machine Learning Algorithms, Validation Methods, Naive Bayes, K-Nearest Neighbors (KNN), Decision Trees, Linear Regression, Logistic Regression, Polynomial Regression, Regularization Techniques, Hierarchical Clustering, Evaluation Metrics, MSE, RMSE, Hyperparameter Tuning, Dimensionality Reduction, OpenCV, Mediapipe.

PROJECTS

AirSlide – Hand Gesture Controlled Presentation System

- Developed a **real-time hand gesture recognition system** using Python, OpenCV, and MediaPipe for presentation control.
- Implemented **hand tracking and gesture detection** supporting 4 predefined gestures.
- Achieved **real-time processing of approximately 25 FPS** for smooth slide navigation.

Driver Drowsiness Detection System

- Developed fatigue detection system using eye-tracking
- Generated alerts after **3-second eye closure threshold**
- Implemented real-time webcam monitoring pipeline

Spam vs Ham Email Classification.

- Built a **text classification model** using Python and Scikit-learn achieving **94% accuracy**.
- Performed **text preprocessing, tokenization, and TF-IDF feature extraction** on 10,000+ email records.
- Evaluated model performance using **Precision, Recall, and F1-score** metrics.

Mobile Market Insights – Power BI Dashboard

- Analyzed **10k+ sales records** using Power BI
- Created KPI-based dashboards for trend analysis
- Generated actionable revenue and brand insights

EDUCATION

Vasavi College of Engineering

B.E.-Information Technology

2020 - 2024

CERTIFICATE

NPTEL: Joy of Computing using Python.

Python Programming.

Data Analysis with Mysql.

Exploratory Data Analysis.