

# 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.