Muthu Kumaran V

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GitHub | LinkedIn | Portfolio

Summary

Detail-oriented Data Analyst with expertise in SQL, Python, Power BI, and Excel. Experienced in developing dashboards, predictive models, and machine learning solutions to drive actionable insights. Published IEEE-indexed research on secure attendance systems. Skilled in leveraging data to optimize business strategies and improve operational efficiency across domains such as sales analytics and workplace behavior analysis.

Skills

Programming & Data Analysis: Python, SQL, Excel
Visualization: Power BI
Machine Learning & Statistics: Machine Learning, Predictive Modeling, Data Cleaning, ETL, Statistics
Soft Skills: Problem Solving, Logical Reasoning, Storytelling, Communication

Projects

- **Secure Attendance System (IEEE)** – Django, FaceNet, GPS, MAC Verification. Built a multi-layer authentication system reducing attendance fraud; results published in IEEE-indexed paper.

- **Stress Detection from Voice** – CNN + BiLSTM with MFCC. Achieved 94% accuracy in classifying 8 emotional states.

- **Workplace Stress Prediction** – Machine learning models (XGBoost, LightGBM) achieved 97% accuracy on workplace stress survey dataset.

- **Sales Dashboards (Excel & Power BI)** – Designed dashboards with KPIs, Top 10 customers, category trends, and regional performance.

- **Airbnb SQL Case Study** – Wrote SQL queries and visualized occupancy, revenue, and performance using Python.

Education

M.Sc. Data Analytics, Vel Tech University, Chennai	2023 – 2025
CGPA: 8.9	
B.Sc. Computer Science, Nazareth College of Arts and Science, Chennai	2020 – 2023
CGPA: 8.5	

Certifications

- Coursera – Business English Basics

- NPTEL – Human Resource Management, E-Business

- Hands-on Training – Deep Learning Techniques

Achievements

- Published IEEE-indexed research paper on Secure Attendance System

- 1st Prize – Idea Contest on Technology Innovation (College Level)

- 2nd Prize – Debate on Emerging Technologies

Languages

English – Fluent, Tamil – Native