Rubeshkanna Ravichandran

Data Analyst Python • SQL • Power BI • Machine Learning

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Profile

Data Analyst with hands-on experience in Python, SQL, Power BI, and Machine Learning, specializing in data cleaning, exploratory data analysis (EDA), dashboard development, and KPI reporting. Proven ability to automate workflows, improve data accuracy, and deliver actionable insights through business-focused analytics.

Professional Experience

09/2025 – Present
Tiruchirappalli, Tamil Nadu

DigiDARA Technologies Pvt. Ltd.
Data Analyst Intern
• Collected, cleaned, and preprocessed data using Python and Excel.
• Performed exploratory data analysis (EDA) to identify patterns and insights.
• Created interactive dashboards in Power BI
• Automated workflows, reducing data processing time by 15%.
• Supported predictive modeling and data-driven reports for business teams

07/2024 – 08/2024

NeuraAI Solutions Private Limited
Artificial Intelligence & Machine Learning Product Development Intern
- Assisted in AI & ML product development and data preprocessing
- Conducted EDA and supported model training and evaluation
- Implemented ML concepts using Python
- Collaborated on AI product workflows and documentation

Education

09/2023 – 06/2025

Master of Computer Applications
K.S.R College of Engineering

07/2020 – 06/2023

Bachelor of Computer Applications
Nandha Arts and Science College

Skills

- Python
- Power BI
- Statistics
- Pandas
- Excel
- Data Cleaning
- Statistics
- Matplotlib
- SQL
- Data Visualization
- NumPy
- Seaborn

Languages

Tamil ●●●●● English ●●●●○

Projects

12/2022 – 06/2023 **An Efficient Search Scheme Over Encrypted Data on Cloud from cryptography**

.Developed a secure searchable encryption system using Python and the Fernet cryptography library for encrypted cloud data storage and retrieval.

• Implemented keyword-based search over encrypted data, ensuring privacy, confidentiality, and integrity.

• Designed a cloud-compatible architecture for key management, encryption, secure storage, and fast retrieval.

• Integrated a Streamlit web interface for secure data upload, encryption, and search operations.

01/2025 – 06/2025 **A spatiotemporal transfer learning frameworks with mixture of experts for traffic flow predictions**

• Built a deep learning model combining CNN, LSTM, and Attention-based Mixture of Experts to capture spatial and temporal traffic patterns.

• Applied transfer learning to improve prediction accuracy in low-data regions using knowledge from data-rich networks.

• Achieved 15–25% improvement in short-term traffic forecasting accuracy compared to baseline models.

• Enhanced model generalization and reduced training time through domain adaptation techniques.

11/2025 – 01/2026 **ATM Management System using Python & MySQL**

• Built a Python–MySQL based ATM system with secure authentication and real-time balance updates

• Implemented atomic deposit/ withdraw operations with transaction logging

• Designed SQL queries for mini-statement generation using timestamped records

• Strengthened backend skills in database integration, validation, and control flow

11/2025 – 01/2026 **Instagram Insights Dashboard**

Developed an interactive Power BI dashboard to analyze Instagram engagement metrics, including likes, comments, and engagement rate.

• Designed KPI cards and time-series visualizations to track performance trends across years, months, and posts.

• Implemented DAX measures and Power Query transformations to clean, model, and aggregate social media data.

• Delivered actionable insights through post-level analysis and interactive slicers, supporting data-driven decision-making.

01/2026 – 01/2026 **Sales & Profit Performance Dashboard**

• Designed and developed an interactive Power BI dashboard to analyze sales, revenue, and profit performance across time, categories, customers, and regions.

• Built KPI-driven visualizations (Sales, Profit, Targets, Profit %) using DAX to enable data driven business decision-making.

• Implemented dynamic slicers and drill-down insights for payment modes, cities, and customers to identify high-performing segments.

• Transformed and modeled raw sales data using Power Query, improving data accuracy, clarity, and analytical efficiency.

01/2026 – 02/2026 **Library management**

- Developed a role-based Library Management System using Python and Flask for adding, borrowing, and returning books.
- Implemented real-time book tracking with status indicators and role-based actions for Students and Teachers.
- Designed a modern, interactive UI with glassmorphism, animated particles, and a light/dark theme toggle.

01/2026 – 02/2026

Royal Enfield Demand Prediction Web Application using Flask & Linear Regression

- Built a Flask-based ML web app to predict bike demand using Linear Regression.
- Trained and evaluated model using Scikit-Learn with real-time input handling.
- Integrated dynamic data visualization using Chart.js.
- Designed modern responsive UI with backend–frontend API integration.

Interests

- Machine Learning Applications
- Business Analytics
- Healthcare & Traffic Data Analysis
- Dashboard Design & Visualization

Certificates

- Exploratory Data Analysis for Machine Learning
- Introduction to Project Management
- Introduction to DevOps
- UI/UX Design using Canva
- Introduction to DevOps

Publications

2025

A Spatiotemporal Transfer Learning Frameworks with Mixture of Experts for Traffic Flow Predictions

IEEE

Published an IEEE conference paper proposing a spatiotemporal transfer learning framework with Mixture of Experts (MoE) to improve traffic flow prediction accuracy across heterogeneous road networks.

• Developed a transferable deep learning model capable of learning temporal patterns and spatial correlations from multiple cities, achieving higher prediction accuracy and lower RMSE than baseline models.

• Successfully integrated Mixture of Experts architecture to dynamically select the best expert model for different traffic conditions, improving generalization and scalability.