Murali Aarilli
Aspiring Data Scientist

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Aspiring Data Scientist with hands-on experience analyzing complex operational data to optimize flight routes and improve efficiency. Skilled in Python, SQL, and Excel for data cleaning, visualization, and workflow automation. Passionate about using statistical analysis and machine learning to drive data-informed decisions in fast-paced environments.

SKILLS

Languages	Python, R, SQL
Frameworks & Libraries	Scikit-learn, TensorFlow, PyTorch, Flask, Matplotlib, Seaborn
AI & ML Technologies	Generative AI, Machine Learning, Deep Learning, MLOps, NLP, LLMs
Data Engineering	ETL, Data Modeling, Data Pipelines, Data Integration, Data Transformation, Data Processing
Tools	Power BI, Advanced Excel, Tableau, Jupyter Notebooks, Git and GitHub
Platforms	Google Cloud Platform, AWS (Basics)
Soft Skills	Analytical Thinking, Problem Solving, Excellent Communication, Adaptability and Flexibility

EXPERIENCE

Flight Dispatcher / Data Analytics   DEC 2024 — Present
Eflight - Ghagane Aviation Private Limited   *Bengaluru, KA*

- Analyzed real-time flight and weather data using statistical methods and data analytics tools (Python, SQL, Excel) to extract, clean, and interpret flight operational datasets, optimizing routes to improve safety, fuel efficiency, and overall performance.
- Automated flight planning workflows by integrating data from multiple sources, reducing manual errors, minimizing processing time, and generating actionable performance insights for operational improvements.
- Collaborated with teams to visualize flight metrics, share insights, and recommend scheduling, route planning, and resource allocation optimizations.

AR Associate / Physician Billing   OCT 2023 — DEC 2024
Epicle Solutions Private Limited   *Chennai, TN*

- Handled physician billing and claims for US healthcare providers, ensuring accuracy and timely reimbursement.

PROJECTS

Power BI-Based Credit Card Fraud Detection
Power BI, Matplotlib, Power Query, DAX, Advanced Analytics with AI Features

- Built a Power BI dashboard for real-time monitoring and prediction of credit card fraud patterns.
- Utilized anomaly detection, key influencer analysis, and clustering techniques to quickly identify fraudulent transactions.
- Enhanced fraud management by automating alerts and delivering actionable data-driven insights to stakeholders.

Machine Learning - Based Air Pollution Forecasting
Python, Flask, TensorFlow, PyTorch, Machine Learning Models, API

- Designed a Flask-based web app that predicts AQI using Random Forest, TensorFlow, and PyTorch models on real-time data.
- Achieved a 95% accuracy rate in AQI classification, improving reliability of air quality forecasting and alerts.
- Visualized air quality trends and health risk levels using engaging, interactive dashboards for end users.

AI - Based Fashion Recommendation Application
Python, Flask, OpenCV, NLP, LLMs, Recommendation Systems, Google Cloud Platform, Trend Analysis

- Developed an AI recommendation engine that suggests clothing based on user profiles, preferences, and style history.
- Utilized NLP, OpenCV, and LLMs to analyze trends and deliver tailored fashion options to users.
- Deployed the AI recommendation engine on Google Cloud Platform for scalable, personalized user experience."

EDUCATION

Bachelor of Science in Mathematics, Statistics, and Computer Science, *K.B.N College*	2020 — 2023
Higher Secondary School in Mathematics, Economics, and Commerce, *K.B.N College*	2018 — 2020
AP Secondary School Certificate, *Joseph E.M High School*	2017 — 2018

CERTIFICATES

VXL IT Solutions	Python with Machine Learning Certificate	2025
Besant Technologies	Data Science Certificates	2025
Reliance Foundation	AI Data Engineer Certificate	2025
Quality Thought	Power BI Certificate	2024