KIRTIK AYUSH

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LinkedIn • Github • Streamlit

SUMMARY

Data Science graduate with hands-on experience in machine learning, real-time data apps, and predictive modeling. Driven to build tools that transform raw data into actionable insights.

EXPERIENCE

Data Analyst Intern **Sept 2023 - June 2024**

Settlemint, India

- Analyzed and pre-processed large-scale crop yield datasets (500K+ records) to ensure data quality, reducing missing data errors by ~25%.
- Built and deployed predictive ML models (e.g., regression, decision trees) for crop forecasting, improving forecasting accuracy by 15–20%.
- Leveraged Python, SQL, and Azure Cloud Services to manage and analyze data.

EDUCATION

Master of Science in Data Science **Jan 2023 - June 2024**

University of Aberdeen, United Kingdom

B.Tech in Electronics and Instrumentation Engineering **June 2018 - April 2022**

Techno India Salt Lake, India

PROJECTS

Customer Segmentation using RFM Analysis - ***GitHub***

Python, Streamlit, KMeans, Data Visualization

- Developed a **Streamlit app** for customer segmentation using **RFM analysis** on 500K+ e-commerce transactions.
- Applied **KMeans clustering** with **Elbow** and **Silhouette** methods for optimal 4-cluster selection.
- Visualized insights using **Seaborn** and **Matplotlib**; reduced dataset by 40% for optimized GitHub.

Mumbai Real-Time Traffic Analyzer - ***GitHub***

Python, Streamlit, TomTom API, HERE Maps API

- Developed a **real-time traffic visualization app** for 3 regions in Mumbai using **TomTom API** and **HERE Maps**.
- Enabled interactive map rendering with area filters, tool-tips, and overlays, improving user navigation by ~30% in simulated tests.
- implemented Streamlit caching and efficient API handling to reduce API call latency by ~40%, enhancing app responsiveness.

Titanic Survival Predictor - ***GitHub***

Python, Streamlit, Scikit-Learn, Data Visualization

- Built an **interactive Streamlit app** to compare **ML models** (Decision Tree, Random Forest, Logistic Regression) for Titanic survival prediction on **891 passenger records**.
- Included **accuracy comparison**(Random Forest: 85%, Logistic Regression: 95%), **confusion matrix heat maps**, decision tree visualization, and **real-time user input prediction** in under 1 second.

ADDITIONAL INFORMATION

Technical Skills:

- **Programming Languages**: C, C++, C#, Python, MATLAB, SQL
- **Platforms and Tools**: Arduino, Raspberry Pi, Azure, AWS, Numpy, Pandas, Scikit-Learn
- **Software & Applications**: Data processing and analysis software, Scilab, Mathematica, MS-SQL