

ADNAN MOMIN

India | +91-7796453687 | muhammadadnanmomin@gmail.com

GitHub: github.com/muhammadadnanmomin | LinkedIn: linkedin.com/in/adnanmomin

SUMMARY

Data Scientist with hands-on experience in Python, SQL, Pandas, NumPy, and Scikit-learn for data analysis and machine learning. Experienced in data cleaning, preprocessing, exploratory data analysis (EDA), feature engineering, customer segmentation, and predictive modeling through end-to-end projects. Passionate about solving business problems using data with a strong willingness to learn, collaborate, and grow in a fast-paced team environment.

TECHNICAL SKILLS

Programming: Python, SQL

Data Analysis: Pandas, NumPy, Data Cleaning, Data Preprocessing, Exploratory Data Analysis (EDA), Feature Engineering, Statistical Analysis

Machine Learning: Scikit-learn, Regression, Classification, Clustering, Logistic Regression, K-Means, Model Evaluation

Data Visualization: Matplotlib, Seaborn, Power BI, Streamlit

Databases: MySQL

Tools & Version Control: Git, GitHub

PROJECTS

Customer Intelligence Platform

Tech Stack: Python, Pandas, NumPy, Scikit-learn, SQL, Matplotlib, Seaborn

GitHub: <https://github.com/muhammadadnanmomin/customer-intelligence-platform>

- Built an end-to-end Customer Intelligence Platform by preprocessing **1M+ retail transactions and telecom customer data** using Python, Pandas, and NumPy for analytics and machine learning.
 - Performed **Exploratory Data Analysis (EDA), feature engineering, RFM analysis, and K-Means customer segmentation** to uncover customer behavior, purchasing patterns, and business insights.
 - Developed a baseline **Logistic Regression** churn prediction model, achieving **80.2% Accuracy** and **0.835 ROC-AUC**, evaluated using Precision, Recall, F1-score, and Confusion Matrix.
 - Implemented a production-style ML preprocessing pipeline including data cleaning, encoding, train-test split, feature scaling, and class imbalance analysis following industry best practices.
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Airline SQL Analytics – End-to-End Data Engineering & Analytics System

Tech Stack: Python, Pandas, MySQL, SQL, Streamlit, Plotly, Matplotlib, Seaborn, PyArrow (Parquet), Git

GitHub: <https://github.com/muhammadadnanmomin/airline-sql-analytics>

- Built an analytics platform processing **120M+ airline records** using Python, SQL, and MySQL.
 - Designed a star schema and optimized SQL queries for efficient business reporting.
 - Developed ETL pipelines and analytical views for airline performance analysis.
 - Built interactive dashboards using Streamlit and Plotly to visualize operational KPIs.
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Flight Delay Minutes Prediction — End-to-End ML System

Tech: Python, Pandas, NumPy, Scikit-learn, XGBoost, Streamlit, Docker, AWS EC2, Git

GitHub: <https://github.com/muhammadadnanmomin/flight-delay-prediction>

Live App: <https://flight-delay-app.streamlit.app>

- Built a machine learning model to predict monthly flight delay minutes using **170K+ airline records**.
 - Performed data preprocessing, feature engineering, and model evaluation using Scikit-learn and XGBoost.
 - Achieved $R^2 = 0.947$ for delay prediction through feature optimization.
 - Developed an interactive Streamlit application for prediction and visualization.
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RESEARCH & ACHIEVEMENTS

Best Paper Award – ICSISD-26 International Conference (2026)

Paper: Time Series Forecasting Using Machine Learning for Sustainable Resource Planning

EDUCATION

Bachelor of Computer Applications (BCA) | Kisan Veer Mahavidyalaya, Wai

Shivaji University, Kolhapur | **Grade: B+** | **2023–2026**

HSC (Science – PCMB + IT) | Kisan Veer Mahavidyalaya, Wai

53.83% | **2023**

SSC | T. L. Joshi Vidyalaya, Wai

86.60% | **2021**