Md. Zubayer Hasan

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ABOUT ME

As a Machine Learning Engineer with internship experience in data analysis, I am curious about data, training in Machine Learning/ Deep Learning models, and providing beautiful insights that are easily understandable. Looking forward to leveraging Machine Learning, Deep Learning, and transfer learning models to solve challenging business problems.

PROFESSIONAL EXPERIENCE

05/2025 – 09/2025

AiQuest
Data Analyst Intern

- In-depth analysis of a retail dataset to uncover: Sales trends, customer behavior patterns, and inventory performance.
- To analyze accuracy and reliability: Streamlined data collection and reporting procedures, reducing processing time by **20%**, enhancing efficiency with **Excel** and **SQL**.
- To present actionable insights to stakeholders: Design and develop dashboards and visual reports.
- Strengthened core data analysis: **Data visualization**, **trend analysis**, and transitioning data into business insights.

EDUCATION

07/2020 – 07/2025
Dhaka, Bangladesh

BSc in Mathematics
Govt. Titumir College
4th Year GPA: 3.10 (Till now)
Former Vice President, Analytics Club, Govt. Titumir College
Led a team in an inter-college data analysis competition using Power BI and secured 1st place.

SKILLS

Programming Languages
Python, Pandas, Numpy, Matplotlib, Seaborn, SQL(MySQL)

Data Analytics
Spreadsheet, MS Excel, Power BI, Tableau, Google Looker Studio

Data Management
Azure Cloud

Frame Work
Flask, HTML

Machine Learning
Library: Scikit-learn, TensorFlow, Keras

Soft Skills
Communication, Critical thinking, Data storytelling, Teamwork, Adaptability, curious to learn

PROJECTS

Zomato Stock Price time-series forecasting
Description: Developed and evaluated time-series models to forecast Zomato stock prices using ARIMA and Prophet. Processed over **1,000** daily price records, applied **rolling window validation**, and compared model performance using **RMSE** and **MAPE** metrics. Achieved **2.54 RMSE** and **2.53% MAPE** with ARIMA, outperforming Prophet **(RMSE = 5.32, MAPE = 6.14)**. Prepared model for deployment on Hugging Face for real-time forecasting.
Teck Stack: Python | ARIMA | Prophet | Pandas | Matplotlib

Fake Text Classification
Built a text classification pipeline on **72,000 samples** using **TF-IDF** features. Compared with multiple models. **Logistic Regression** accuracy: **95%,** with full preprocessing, EDA, and performance evaluation.
Tech Stake: Python, scikit-learn, NLTK/spaCy, Pandas, NumPy, Matplotlib, Seaborn, WordCloud

Time Series Forecasting of Air Pollutants (NO_2 & CO)
Built **GRU** and **ARIMA** models to forecast NO_2 and CO concentrations, applying differencing, lag features, and scaling to handle noisy time series. Achieved strong predictive performance (**NO_2 RMSE: 14.07, CO RMSE: 0.46**) and visualized actual vs predicted trends.
Tech Stack: Python | GRU & ARIMA | Pandas, NumPy, Scikit-learn | TensorFlow/Keras | Feature Engineering: Lag, Differencing, Resampling | Visualization with Matplotlib/Seaborn.

LANGUAGES

English

Bangla (Native)

PROFESSIONAL CERTIFICATIONS

Data Analysis Specialization
AiQuest
Duration: 50 hours