



# Md. Zubayer Hasan

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github

🔗 Portfolio

## 👤 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.

## 🧠 SKILLS

### Programming Languages

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

### Frame Work

Flask, HTML

### Data Analytics

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

### Machine Learning

Library: Scikit-learn, TensorFlow, Keras

### Data Management

AWS

### Soft Skills

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

### Mathematical Skills

Linear Algebra, Calculus & Differential Equations, Numerical Analysis, Probability, A/B Testing, Hypothesis Testing

## 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.

## PROJECTS

### **Sales performance analysis of Domino's Pizza with Power BI**

Analyzed sales data to uncover weekly and daily revenue trends, customer behavior, and performance patterns. Built interactive Power BI dashboards to visualize key performance indicators and support strategic decision-making. Delivered insights to improve sales forecasting and operational efficiency.

### **Time Series Forecasting of Air Pollutants (NO<sub>2</sub> & CO)**

Built GRU and ARIMA models to forecast NO<sub>2</sub> and CO concentrations, applying differencing, lag features, and scaling to handle noisy time series. Achieved strong predictive performance (**NO<sub>2</sub> 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.

### **Cluster Analysis on different Wine samples**

Conducted K-means clustering on wine samples. Performed data preprocessing, feature scaling, and determined optimal clusters via the Elbow method. Visualized and analyzed clusters to extract actionable insights for segmentation.

### **Retail supply chain sales Dashboard with Power BI**

Developed an interactive dashboard for a retail company to analyze sales, customer segmentation, and regional performance. Used Power Query for data cleaning, DAX for calculated KPIs, YoY/MoM revenue trends, and slicers for dynamic filtering. Deployed dashboard for executive reporting.

## LANGUAGES

English

Bangla (Native)

## PROFESSIONAL CERTIFICATIONS

### **Data Analysis Specialization**

AiQuest  
Duration: 50 hours