

Md Mustain Billah

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Skills

Languages & Databases:	Python (Advanced), SQL, MongoDB
ML & MLOps:	Scikit-learn, TensorFlow, MLflow, DVC, Prefect
Data Processing & Visualization:	Pandas, NumPy, Dask, Matplotlib, Seaborn, Plotly
DevOps & Cloud:	Docker, CI/CD, GitHub Actions
Development Tools:	Git, GitHub, VS Code, Jupyter Notebook
API & Web:	FastAPI, Flask, Streamlit, Postman
Core Competencies:	Machine Learning, MLOps, Statistical Analysis, API Development

Experience

Data Analyst Monico Technologies Ltd. Dhaka, Bangladesh	Aug 2023 - Dec 2024
<ul style="list-style-type: none">Built live KPI dashboards for vehicle statistics, improving UX and recovering 35% of churned customers.Optimized MongoDB data extraction by 20% through chunking, preventing memory issues.Implemented Dask for scalable analysis, cutting processing time by 25% for sensor data.Reduced data size by 27% through optimization and deduplication for better efficiency.Developed ML-based fuel event classification system with business dashboards for improved decision-making.Resolved complex reporting challenges through data analysis and pattern identification in vehicle sensor data.	
Data Scientist - Intern Koryntia London, UK - Remote	Jun 2023 - Jul 2023
<ul style="list-style-type: none">Developed a loan prediction model using RandomForest, improving accuracy by 15% through feature engineering.Conducted statistical analysis of loan default patterns, identifying key risk factors through correlation analysis.	
AI/ML Engineer - Intern Titan Technologies Ltd. Dhaka, Bangladesh	Feb 2022 - Jun 2022
<ul style="list-style-type: none">Built and deployed NLP-based HR chatbot, handling 200+ daily employee queries.Automated HR query handling processes, reducing manual workload by 30%.	

Projects

Production-Ready MLOps Pipeline: Telecom Commission Predictor github.com/mddmustainbillah/telecommunication
<ul style="list-style-type: none">Built ML pipeline with MLflow, Prefect, and DVC for automated training and Docker-based deployment.Implemented MLflow for experiment tracking and model promotion from staging to production.Developed FastAPI-based web interface for commission predictions, containerized with Docker.Automated pipelines using DVC and Prefect for reliable feature engineering workflows.
Interactive Sales Dashboard github.com/mddmustainbillah/Superstore_plotly_streamlit_dashboard
<ul style="list-style-type: none">Developed Streamlit-based dashboard with Plotly visualizations for multi-dimensional sales analysis and filtering.Created interactive visualizations to identify top-performing regional markets.

Education

Masters in Applied Statistics and Data Science Jahangirnagar University, Dhaka	Jan 2023 - Dec 2023 CGPA: 3.88/4.00
Bachelor of Computer Science and Engineering IUBAT, Dhaka	Jan 2018 - Apr 2022 CGPA: 3.58/4.00

Teaching & Leadership

- Led **live online Data Science classes** for 50+ students, teaching ML and hands-on Python implementations.
- Mentored **CS students and delivered guest lectures on ML/AI**, fostering technical growth in aspiring developers.

Certifications

SQL 365 Data Science	Git and GitHub 365 Data Science
Python Programmer Bootcamp 365 Data Science	Introduction to Tableau 365 Data Science
Machine Learning in Python 365 Data Science	Deep Learning with TensorFlow 2 365 Data Science