

# Md Mustain Billah

Dhaka, Bangladesh | [mustainbillah017@gmail.com](mailto:mustainbillah017@gmail.com) | +8801724195527 | [linkedin.com/in/mdmustainbillah0/](https://linkedin.com/in/mdmustainbillah0/)  
[github.com/mddmustainbillah](https://github.com/mddmustainbillah) | [mddmustainbillah.github.io/mustain/](https://mddmustainbillah.github.io/mustain/) | [youtube.com/@mustainbillah3050](https://youtube.com/@mustainbillah3050)

## Skills

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

## Experience

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

## Projects

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

## Education

<b>Masters in Applied Statistics and Data Science</b> Jahangirnagar University, Dhaka	Jan 2023 - Dec 2023 CGPA: 3.88/4.00
<b>Bachelor of Computer Science and Engineering</b> 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

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