

SAMIHA JAHAN EMA

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Portfolio: <https://samihaportfolio.lovable.app>



EDUCATION

BSc in Computer Science & Engineering

East Delta University, Chattogram, Bangladesh

Sept 2022 - Nov 2026 (Expected)

- CGPA: 3.79 / 4.00
- Board of Trustees Scholarship recipient (merit-based)
- Coursework: Data Structures, Database Systems, Machine Learning, Statistics, Software Engineering

Higher Secondary Certificate (HSC) - Science

Islamia Degree College, Chattogram

2018 – 2020

GPA: 5.00 / 5.00

Secondary School Certificate (SSC) - Science

City Government Girls' High School, Chattogram

2016 – 2018

GPA: 5.00 / 5.00

PROJECTS

Inventory & Supply Chain Management Analytics Dashboard | Power BI [\[Click Here\]](#)

- Built interactive dashboard for inventory tracking, supplier performance, sales KPIs, and logistics metrics across warehouses.
- Implemented drill-downs for stock analysis, reorder alerts, and procurement optimization reducing stockout risks.

City Ride Operational & Revenue Analytics Dashboard | Power BI [\[Click Here\]](#)

- Developed 7-page analytics solution processing 148K+ bookings analyzing revenue leakage, fleet utilization, and cancellation patterns.

HR Analytics Dashboard | Excel [\[Click Here\]](#)

- Created comprehensive dashboard tracking attrition rates, hiring trends, departmental performance, and workforce demographics.

SQL Data Warehouse & ETL Pipeline | SQL Server [\[Click Here\]](#)

- Designed data warehouse using Medallion Architecture (Bronze/Silver/Gold) with ETL pipelines transforming ERP/CRM data into star schema.

Sales Analytics Dashboard | Excel [\[Click Here\]](#)

- Built interactive dashboard analyzing 13-week sales trends, customer behavior, and logistics performance with Pivot Tables and slicers.

Classification of Bangla Violence-Inciting Text | Python, NLP (Research Paper) [\[Click Here\]](#)

- Developed hybrid NLP model combining transformers and linguistic features; achieved F1-score of 0.8211 using ensemble techniques.

Mental Health Text Classifier | Python, NLP [\[Click Here\]](#)

- Built text classification pipeline with preprocessing, feature extraction, and model training on mental health datasets.

EXPERIENCE

Assistant Teacher (ICT) | Oxford Modern School & College | Chittagong, Bangladesh | August 2026 – Present

- Delivered structured technical training on ICT concepts to students, strengthening communication and presentation skills
- Created data-driven assessment frameworks to evaluate learner performance and identify areas for improvement
- Managed end-to-end curriculum planning and content development, meeting strict deadlines and institutional standards
- Coordinated with cross-functional teams including faculty and administration to implement technology-driven solutions
- Applied problem-solving and analytical thinking to simplify complex technical concepts for diverse audiences

TECHNICAL SKILLS

Programming & Analytics: Python (Pandas, NumPy, Matplotlib, Seaborn), SQL (Joins, CTEs, Window Functions, Aggregations), C

BI & Visualization: Power BI (DAX, Data Modeling, Interactive Dashboards), Excel (Pivot Tables, Power Query, Power Pivot, Charts, Interactive Dashboards)

Data Engineering: ETL Pipeline Design, Data Warehouse (Medallion Architecture, Star Schema), Data Cleaning & Transformation

Web Development: HTML, CSS, JavaScript (Fundamentals)

Tools & Platforms: MS SQL Server, Git, GitHub, Jupyter Notebook, Google Sheets, MS Office Suite

Languages: Bangla (Native), English (Professional Proficiency)

CERTIFICATIONS

- **Google Data Analytics Professional Certificate** - Coursera
- **Basic Programming with Python** - IICT-CUET (under EDGE Project)
- **Python with Machine Learning** - Black Origin

EXTRACURRICULAR ACTIVITIES

EDU Inter University Engineering Day - Participant | October 2022

- Collaborated in an inter-university Olympiad developing innovative engineering ideas within a constrained timeframe.

REFERENCES

DR.K.M.MOHIBUL KABIR

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