

JAHID HASAN

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EDUCATION

Daffodil International University

B.Sc. in Software Engineering
2023 - present — Savar, Dhaka
CGPA: 3.42 / 4.00 (current)

COURSEWORK

Machine Learning & AI

- Machine Learning
- Artificial Intelligence
- Data Warehouse & Data Mining

Mathematics & Statistics

- Linear Algebra
- Calculus & Diff. Equations
- Probability & Statistics
- Discrete Mathematics
- Numerical Analysis

Systems & Engineering

- Database Management Systems
- Computer Networks
- Operating Systems

SKILLS

Data Analysis & ML

- Python • Numpy • Pandas
- Scikit-learn • SQL • R
- Statistical Analysis • EDA

Data Visualization

- Power BI • Tableau • Excel
- Matplotlib • Seaborn

Tools

- Git • GitHub • Google Colab
- Jupyter Notebook • $\LaTeX$

Other Familiarities

- C • C++ • JavaScript

LANGUAGES

Bangla (Native)
English (Proficient)
German (Conversational)

SUMMARY

Final-year Software Engineering student with a strong foundation in Machine Learning and statistical analysis. Eager to apply theoretical knowledge to complex problems, with a deep research interest in Natural Language Processing (NLP) and healthcare data. Seeking to contribute to a challenging research environment while pursuing an MSc in Data Science.

PROJECTS

RoktoDut (Blood Donation Management System)

Academic Project

[🐙 GitHub Link](#)

- Architected a scalable DBMS mapping real-time donor availability with patient needs, demonstrating strong proficiency in database design and data structures.
- Optimized SQL queries and backend algorithms to accelerate donor-matching, improving real-time data handling efficiency.

Shishu Mela Operations & Performance Analysis

Academic Project

[🐙 GitHub Link](#)

- Analyzed operational data of 200 visitors using Power BI dashboards and SPSS hypothesis testing (T-tests, Linear Regression) to uncover visitor behavior and spending patterns.
- Built a Decision Tree model in BigML to predict ride preferences by age group, generating actionable insights for operations management.

PUBLICATIONS

DRISHTI-Bn - AI for Disaster Management

Python, NLP

B.Sc. Thesis

[🐙 GitHub Link](#)

- Engineered a predictive model leveraging machine learning to estimate post-disaster casualties and optimize emergency response strategies.
- Synthesized complex datasets and analytical findings into a comprehensive research paper, currently in preparation for submission to a peer-reviewed academic journal.

Cost-Sensitive Financial Distress Prediction

Python, NLP

Working Paper

[🐙 GitHub Link](#)

- Developed a cost-sensitive machine learning framework optimized for imbalanced financial datasets to enhance credit risk decision support systems.
- Integrated Explainable AI (XAI) techniques to ensure model transparency and interpretability, bridging the gap between predictive accuracy and stakeholder trust.

CERTIFICATIONS

Google Data Analytics Professional Certificate

Issued: 2025 (Completed)

Phitron AI-ML Expert Certificate

Issued: 2026 (Completed)