

MD JAHIRUL ISLAM NAHID

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Profile

Aspiring Data Scientist and Machine Learning Engineer with a strong passion for Web Development. I possess a solid foundation in Python, MySQL, HTML, CSS, PHP, Machine Learning, computer vision, and pattern recognition (CVPR), as well as data science, Data Warehousing, and Management Information Systems (MIS). I have hands-on experience in deep learning, computer vision, predictive modeling, data visualization, and managing structured data through efficient warehousing techniques to support decision-making systems. Additionally, I have a keen interest in C# and ASP.NET for developing efficient, scalable, and modern web applications. I am actively seeking an internship opportunity that integrates Data Science and Machine Learning with web development, enabling me to contribute to innovative, data-driven solutions and intelligent information systems.

Education

American International University-Bangladesh (AIUB) [Running]

B.Sc. in Computer Science and Engineering

2022 – 2026

CGPA: 3.64/4.00

Birshrestha Noor Mohammad Public College (BNMPC)

2017 - 2019

Higher Secondary Certificate (HSC)

GPA: 4.89/5.00

Narayanganj Ideal School

2014 – 2017

Secondary School Certificate (SSC)

GPA: 5.00/5.00

Technical Skills

- **Programming:** Python, R, C++, C#, ASP.NET, SQL
- **Web Development:** HTML, CSS, JavaScript, PHP
- **ML/AI:** Machine Learning, Deep Learning, NLP, TensorFlow, pandas, NumPy, Keras.
- **Visualization:** Matplotlib, Seaborn
- **Databases:** MySQL, Oracle
- **Other:** Microsoft (Word, Excel, PowerPoint), Git, Linux.
- **Soft Skills:** Leadership, Teamwork, Communication, Adaptability.

Selected Projects

An Effective Old Age Home Care System

2024

- Designed a comprehensive software model for managing elder care in old age homes using draw.io, including modules for resident care, staff coordination, and health monitoring.
- Applied Scrum methodology for iterative planning and team collaboration, managing tasks on ClickUp.
- **Tech stack:** draw.io, ClickUp, TeamGantt, Scrum

Leaf Disease Detection using LACBA-Based Data Augmentation

2025

- Developed a Lesion-Aware Copy-Blending Augmentation (LACBA) pipeline to generate synthetic leaf images for improving plant disease classification accuracy.
- Processed an eight-class subset of the PlantVillage dataset, applying steps including leaf masking, lesion detection, context-preserving cropping, tone matching, blending, and visibility checks.
- **Tech stack:** Python, TensorFlow/Keras, EfficientNetV2-S, OpenCV, NumPy, Pandas

Comprehensive analysis of Lung Cancer Detection using Hybrid TVAE+SMOTE Approach

2025

- Developed a hybrid machine learning framework combining TVAE-generated synthetic data and SMOTE balancing to improve lung cancer prediction accuracy.
- Implemented a StackingHybrid model (RF + ANN + SVM + KNN + LR) and conducted 10-fold cross-validation to evaluate performance.
- **Tech Stack:** Python, Scikit-Learn, Pandas, NumPy, TensorFlow/Keras

Cardiovascular Disease Prediction using Machine Learning

2025

- Developed a machine learning model to predict heart failure using genetic, lifestyle, and clinical data, aiming for early detection and improved patient outcomes.
- Implemented and compared seven classification algorithms: Logistic Regression, Decision Tree, SVM, Random Forest, Naive Bayes, K-Nearest Neighbors, and XGBoost.
- Tech stack:** Python, Scikit-Learn, Pandas, NumPy, Matplotlib

Car selling Management system (ASP.NET + C#)

2024

- Developed a full-stack web application for online car selling and buying, enabling users to browse cars by category, view detailed specifications, and purchase vehicle parts.
- Designed and implemented admin and customer dashboards to manage listings, transactions, and user interactions efficiently
- Tech stack:** ASP.NET, C#, SQL Server.

Web Scraping and Topic Modeling of Fox News Articles: A Comprehensive Analysis of News Categories Using Latent Dirichlet Allocation

2025

- Scraped 500+ BBC News articles (US, Politics, World, Entertainment, Sports) and cleaned text (tokenization, stopword removal, lemmatization).
- Performed topic modeling (LDA) to uncover dominant themes across categories and summarize trends in news coverage.
- Tech Stack:** R (rvest, dplyr, ggplot2), LDA, SHAP, Python (sklearn, numpy).

Web Scraping for Data Science Analysis

2025

- Collected data from multiple e-commerce websites to analyze customer behavior, product trends, and market performance.
- Processed and cleaned data using Python, enabling detailed statistical analysis with Pearson Correlation, ANOVA, and Chi-Squared tests.
- Tech stack:** Python, Pandas, NumPy, Matplotlib.

Leadership & Volunteering

General Member, AIUB Social Welfare Club (SHOMOY)

2022 – Present

Contributed to the Ideas Challenge 2024, the flood donation campaign, and the blood donation campaign.

Executive, BNMPC Science Club

2018-2020

Contributed to organizing the national science carnival fests and workshops.

Honors & Awards

- Runner-up in Inter College Language competition.

2019

References

Dr. Abdus Salam

Associate Professor

Department of Computer Science

American International University–Bangladesh (AIUB)

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Mohaimen-Bin-Noor

Assistant Professor, Special Assistant [CS]

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