Arefin Ahmed
Computer Science Graduate

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in LinkedIn ⌗ GitHub 🌐 Portfolio

Profile

Graduated in Computer Science and Engineering specializing in Artificial Intelligence and Machine Learning with strong hands-on experience in data analysis, predictive modeling, and software development. Familiar with building and deploying machine learning models, working with real-world datasets, and developing efficient, scalable solutions. Demonstrated ability to learn quickly, solve complex problems, and collaborate effectively in team-oriented environments. Passionate about applying AI-driven technologies to create innovative solutions.

Personal Information

Date of Birth: 27 April, 2000

Gender: Male

Marital Status: Unmarried

Nationality: Bangladeshi

Religion: Islam

Permament Address: Jawar, Tarail, Kishorganj

Skills

Data Analysis & Visualization: Power BI, Excel, SQL, Exploratory Data Analysis (EDA), Streamlit

Machine Learning: Scikit-learn, Supervised, Unsupervised Learning, Feature Engineering, Model Training and Evaluation, CI/CD Pipeline

Deep Learning: TensorFlow, PyTorch, Natural Language Processing (NLP), Computer Vision

Web Development: Python, C++, HTML, CSS, JavaScript, PHP, MySQL, REST APIs

Tools & Software: Git, GitHub, VS Code, Google Colab, Linux, Microsoft Office 365

Soft Skills: Project Management, Planning, Critical thinking, Presentation, Teamwork, Multi-tasking ability, Adaptability, Analytical Thinking

Projects

Computer Vision Project, *Marine Waste Detection and Tracking*
- Built a computer vision pipeline using image datasets to detect and track marine waste.
- Implemented object detection using DINO-YOLO and YOLO models, and applied DeepSORT for tracking across video frames.
- Developed a Streamlit interface for users to upload videos and visualize real-time detection and tracking.

Web Application Project, *ShopVerse – Online Shopping Platform*
- Developed a responsive e-commerce platform with user authentication and shopping cart features.
- Integrated MySQL database with product search, filtering, and order management.
- Implemented an AI-based chatbot to improve user engagement and customer support.

Machine Learning & NLP Project, *Vulnerable Content Detection*
- Built a text vulnerability detection system using NLP and machine learning to classify text as safe or vulnerable.
- Extracted TF-IDF, BiLSTM features and deployed a trained ML model for real-time prediction.
- Developed a Flask web interface for user text input and live vulnerability classification.

Education

Bachelor of Science (B.Sc) in CSE - *Daffodil International University*   **Ashulia, Savar** *Jan 2022 – Dec 2025*
CGPA: 3.53/4.00
Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Software Engineering, Statistics and Probability, Computer Networks, Information Security, Operating Systems.
Higher Secondary Certificate (HSC) - *Gazipur Cantonment College*   **Dhaka** *Jul 2017 – Apr 2019*
GPA: 5.00/5.00
Science
Secondary School Certificate (SSC) - *Cantonment Board High School*   **Dhaka** *Jan 2015 – Mar 2017*
GPA: 5.00/5.00
Science

Leadership Experiences

Youth School for Social Entrepreneurs (YSSE) – *Buisness Development Intern*   *Jan 2025 – Apr 2025*
Supported business development through market research and partnership outreach. Analyzed project data and stakeholder feedback to identify growth opportunities and improve program effectiveness.
DIU Data Science Club – *Project Associate*   *Apr 2023 – Feb 2025*
Collaborated with peers to analyze real-life projects and assisted in organizing workshops, seminars, and hands-on sessions on data science tools and techniques.
Hult Prize at Daffodil International University – *Organizer*   *Feb 2022 – Nov 2022*
Contributed to the successful planning and execution of Hult Prize events on campus through effective coordination and direction.

Courses & Certifications

SQL (Intermediate) – HackerRank

Computer Office Application – Bangladesh Technical Education Board

Data Science Foundations - Level 2 – IBM

Data Analytics Essentials – Cisco Networking Academy

Advanced SQL for Data Engineering – 365 Data Science

Supervised Machine Learning: Regression and Classification – DeepLearning.AI

References

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Daffodil International University
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