

Md. Nasif Sarwar

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Objective

Passionate and driven graduate seeking to further my expertise in Artificial Intelligence & Data Science through a Graduate program. With a strong foundation in data science, hands-on experience in AI projects, and a proven track record of academic excellence and leadership, I aim to contribute to cutting-edge research and innovative solutions. Eager to collaborate with esteemed faculty and leverage advanced resources to make significant advancements in AI

Education

Daffodil International University

Sept 2020 – Oct 2024

BS in Software Engineering

- GPA: 3.94/4.0
- **Major:** Data Science

Birshreshtha Noor Mohammad Public College

2018

Higher Secondary School Certificate (HSC)

- GPA: 3.58/5.0
- **Group:** Science

Birshreshtha Noor Mohammad Public College

2016

Secondary School Certificate (SSC)

- GPA: 4.28/5.0
- **Group:** Science

Experience

Data Science Intern

Dhaka, Bangladesh

Somikoron AI

Jan 2024 – March 2024

- Developed and deployed advanced web scraping algorithms using technologies such as Selenium, Scrapy, and BeautifulSoup.
- Conducted data collection, cleaning, and analysis for various data science projects, integrating machine learning models for enhanced analytics.

Office Secretary

Dhaka, Bangladesh

Data Science Club, DIU

March 2023 – Running

- Organized and coordinated various club events and workshops, including Data Science in Industry and Women in Data Science seminars, ensuring smooth execution and high participant engagement.
- Managed communication and logistics between club members, executive members, and industry professionals, fostering collaboration and enhancing the club's educational initiatives.

Data Annotator

Dhaka, Bangladesh

Data Science Lab, DIU

Jan 2022 – Dec 2022

- Performed image and text data labeling for machine learning models, enhancing the accuracy of datasets used in research projects
- Used tools like LabelImg and VGG Image Annotator (VIA) to annotate datasets, ensuring high-quality input for model training.

Research and Publication

Optimizing Intrusion Detection with Hybrid Deep Learning Models and Data Balancing Techniques

- Used CNN+DNN, Autoencoder+DNN, and DNN+XGBoost. Intersected SHAP & correlation studies for feature selection and CTGAN, SMOTE & Generative AI for data balancing.
- Paper accepted at the 4th IEEE International Conference on AI in Cybersecurity (ICAIC), University of Houston, 5-7 February 2025.

Projects

Bangla Sign Language Detection & Translation

- Developed a system for Bangla Sign Language Detection and Translation using deep learning. **Tools Used:** ResNet50, VGG19, and MobileNet for sign language detection and translation using Google Translate API.

Pneumonia Detection from Chest X-rays

- Created a deep learning model for detecting pneumonia from chest X-rays, enhancing early diagnosis and treatment accuracy. **Tools Used:** Inception V3, Custom CNN, and MobileNetV2

Tea Leaf Disease Detection

- Developed a machine learning model for tea leaf disease detection using data collected directly from fields, improving early identification and treatment of crop diseases. **Tools Used:** CNN + SVM, DNN+XGB

Training Portal (Website)

- Developed a teaching portal for managing courses and evaluations. **Tools Used:** Laravel, MySQL, JS.

DaamDor

- Developed an application with a dashboard showing price comparison and data analysis of different markets in an area. **Tools Used:** Java Swing, MySQL Database

Awards & Competition

- **Mujib 100 Idea Contest(National Contest):** Led a team, securing a top 100 position out of nearly one million participants, demonstrating exceptional leadership and innovative problem-solving skills.
- Participated in programming contests like DIU Inter University Programming Contest, Leetcon, etc.
- Robi Datathon 3.0 participant

Extracurricular

- In organizing team of 1st International Cyber Security Conference from Bangladesh MIST LEETCON 2023
- In organizing team of Data Science & AI Startup Boot Camp 2024
- In organizing team of Cyber Security Awareness Day 2024
- In organizing team of 3RD DIU DATA SCIENCE SUMMIT 2022

Certifications

- Neural Networks and Deep Learning by DeepLearning.AI (Coursera)
- Foundations of Data Science by Google (Coursera)

Language Proficiency

- IELTS: Overall Band Score 7.5 (Listening 8, Reading 7.5, Writing 7, Speaking 7.5)

Skills

Programming: C/C++, Python, R, SQL, Java, HTML, CSS, PHP

Machine Learning Libraries: Scikit-learn, TensorFlow, PyTorch

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, ableau, Power BI, Plotly, ggplot2.

Research: Overleaf, Elicit, Mendeley, Zotero