

Md. Tasin Hossain Toha

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EDUCATION

NORTH SOUTH UNIVERSITY

2020 - 2025

Bachelor of Science in Computer Science and Engineering

CGPA: 3.13 /4.0 (85%)

Relevant Coursework: Data Structure, Algorithms, Database Management, Operating Systems, Software Engineering, Artificial Intelligence (AI), Machine Learning (ML)

GOVERNMENT AZIZUL HAQUE COLLEGE

2017 – 2019

HSC (Science Group) – GPA: 5.00

BOGURA ZILLA SCHOOL

2009 – 2017

SSC (Science Group) - GPA: 5.00

UNIVERSITY PROJECTS

Automating GUI-Based Software Testing with ChatGPT - Supervisor: Dr. Nabeel Mohammed

- Developed an AI-driven framework using GPT-4, OpenCV, Tesseract, and Selenium to automate GUI test case generation for desktop and web applications. Enhanced testing efficiency, accuracy, and scalability with live interaction, screenshot analysis, and Excel export features.

Hepatitis C Prediction Using Machine Learning - Supervisor: Dr. Riasat Khan

- Developed a model to predict Hepatitis C based on clinical and laboratory data. Utilized machine learning models such as Random Forest, XGBoost, SVM, KNN, DT, and ensemble stacking. Employed feature selection (RFE), normalization of data, and implemented the imitation of balancing classes with ADASYN to enhance performance. Achieved high accuracy and interpretability using model explainability tools like LIME. The solution helps in the early detection of the disease and healthcare decision support.

Leaf Disease Detection - Supervisor: Dr. Nabeel Mohammed

- Leaf disease detection using prototypical networks applies few-shot learning to classify diseases with limited labeled data. It creates "prototypes" for each disease, mapping new images based on proximity to these prototypes in feature space. This approach is effective in situations with diverse plant species and limited data.

Bangla Text Summarizer (ML + NLP) - Supervisor: Mr. Rifat Ahmed Hassan

- Developed a Bangla text summarizer leveraging the mT5 (Multilingual T5) model, fine-tuned for the Bangla language. The project delivers concise and accurate summaries of Bangla text, enabling efficient information retrieval and comprehension.

SKILLS

- Programming:** Python (Pandas, NumPy, Scikit-learn, PyTorch), C, C++, MySQL
- Tools & Platforms:** Jupyter Notebook, VS Code, PowerPoint, Excel, Canva, OpenCV
- Version Control & OS:** Git, GitHub, Linux (basic terminal), Mac, Windows
- Soft Skills:** Problem-Solving, Team Collaboration, Leadership, Communication, Quick Learner
- Language:** English (Fluent), Bangla (Native)

EXTRACURRICULAR ACTIVITIES

IEEE NSU Student Branch - *Sub-Executive* (Coordinator of Media Team)

2020 – 2023

- Led and coordinated a media team, managing content creation, marketing strategies, and outreach campaigns.
- Organized team meetings, effectively communicating ideas, aligning objectives, and driving collaboration.
- Managed multiple projects, prioritizing tasks and deadlines to ensure smooth execution of events and initiatives.

LICENSES & CERTIFICATIONS

Data Science Methodology - IBM (Coursera) [View Certificate](#)

Machine Learning Specialization - DeepLearning.AI (Coursera) [View Certificate](#)