# NAZMUL ISLAM

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## ABOUT ME

Passionate recent B.Sc. (IT) graduate with substantial experience in machine learning research. Excited to work alongside experienced professionals, aiming to leverage my research, problem-solving, and presentation skills to enhance user experiences.

**Language Proficiency**: IELTS Score Overall - 6.5

## EDUCATION

**Jahangirnagar University**
M.Sc in Information Technology
06/2023 - Present  |  *Appeared*

**University of Information Technology and Sciences**
B.Sc in Information Technology
01/2019 - 02/2023  |  *CGPA: 3.94/4.00*

**Engineering University School and College**
H.S.C  |  Science  |  Dhaka Board
07/2016 - 07/2018  |  *GPA: 4.33/5.00*

**T and T High School and College**
S.S.C | Science | Dhaka Board
01/2015 - 05/2016 | *GPA: 5.00/5.00*

## PROGRAMMING ACTIVITIES

**Problem Solving**

- **beecrowd:** I have successfully solved over 300 programming problems.
  **User Profile:** **NazmulIslam45**
- **CODEFORCES:** Participated in multiple Codeforces contests to enhance problem-solving skills.

**Competitions**

08/2019
**Issuing Organization:** UITS Computer Club (ZeroOneFest4)
**Team**:  404_Brain_Not_Found

- Participated in the Inter University Programming Contest of ZeroOneFest4 at UITS.
- Solved several online judge problems and took part in their released competitions.

## PUBLICATION

**Privacy-Preserving Federated Learning-Based Intrusion Detection Technique for Cyber-Physical Systems**

10/2024
**DOI**: **doi.org/10.3390/math12203194**
**Publisher:** MDPI Mathematics (Impact Factor: 2.3, JCR: Q1, SJR: Q2, Citescore: 4.0).

- Developed a privacy-preserving Federated Learning-based intrusion detection system for IoT devices and designed 5 Deep Learning models for cyber-attack detection.

## PROJECTS

**Twitter Based Suicide Ideation Detection System**
12/2023 - 02/2024  |  **Github**

- Built 7 ML, 4 DL models, and BERT for suicide risk detection using a custom Twitter-like dataset.

**Movie Review Sentiment Analysis Using ML & HuggingFace**
11/2024 - 12/2024  |  **Github**

- Movie Review Sentiment Analysis using ML and a Hugging Face Generative AI model for classification.

**PipelineHub Multitask HuggingFacePipeline**
10/2024 - 11/2024  |  **Github**

- A versatile AI pipeline supporting classification, translation, and multimodal tasks.

**Deep Neural Style Transfer**
02/2023 - 05/2023  |  **Github**

- Implemented neural style transfer to apply artistic styles to images, Videos & Webcam using deep learning techniques.

## EXTRACURRICULARS

**Executive of Competitive Programming Wing**
UITS IT Club (UIC)  |  2021 (Dec) – 2023 (Feb)
*Led and organized competitive programming activities, including training sessions and contests, to enhance members' coding skills.*

## SKILLS

- **Programming Language**: Python, C, C++, and JavaScript.
- **Development Fundamentals**: Data Structure & Algorithm, OOP, Design Patterns, SDLC.
- **AI/ML, Data, Frameworks & Tools**: NLP, Generative AI, ML, Federated Learning, Data Analysis, LLM, TensorFlow, Keras, YOLO, PyTorch, NLTK, Scikit-Learn, NumPy, Pandas, LangChain, Hugging Face, OpenAI API, AI Agent.
- **ML Model Deployment:** Heroku, Streamlit, Flask
- **Data & Visualization:** SQL, Tableau, Pinecone
- **Mathematical Foundation:** linear algebra, probability, and statistics.
- **Version Control**: Github
- **Soft Skills**: Strong coding, analytical, and problem-solving skills; proactive, creative, and team-oriented.

## REFERENCES

**Sk. Tanzir Mehedi**
Ph.D Researcher at QUT, Australia
*Relation*: Supervisor  |  *Contact*:  **s.tanzir@qut.edu.au**