

Abdullah AL Muhaimine

Junior Machine Learning & Deep Learning Researcher

Dhaka, Bangladesh | +8801858703758 | abdullahtsn13@gmail.com
github.com/tousifmuhimine | abduallahalmuhaimine.vercel.app

Education

North South University <i>B.Sc. in Computer Science and Engineering (CGPA: 3.44)</i>	2021 – 2025
National Ideal College <i>Higher Secondary Certificate (HSC), GPA 5.00</i>	2018 – 2020
Mohanogor Ideal School <i>Secondary School Certificate (SSC), GPA 5.00</i>	2016 – 2018

Projects

PorteHobe AI (LLM Fine-Tuning)

- Fine-tuned open-source LLMs (Gemma 3:4B) using supervised instruction tuning for mathematical reasoning.
- Curated reasoning-focused datasets and optimized training loss to achieve 15% accuracy increase.

Multimodal Sentiment Analysis (Deep Learning)

- Architected CNN-based and sequence models to detect emotional sentiment from image and video inputs.
- Engineered temporal data preprocessing pipelines for refined feature representation and evaluation.

Flood Forecasting System (Machine Learning)

- Developed a hybrid predictive model combining supervised learning with time-series forecasting (90% accuracy).
- Performed extensive feature engineering on localized environmental datasets for prediction stability.

Technical Skills

Machine Learning: Supervised Learning, Feature Engineering, Model Evaluation, Scikit-learn

Deep Learning: CNNs, Sequence Modeling, Multimodal Learning, PyTorch, TensorFlow

LLMs & Fine-tuning: Instruction Tuning, Reasoning Evaluation, Dataset Preprocessing, Labelling

Data & Research: Python, Data Validation, Research Methodology, Git

Tools: GitHub, Vercel, Postman, LaTeX, GSM8K Benchmarking

Languages

English: Professional (Fluent) | **Bangla:** Native (Mother tongue)