

# MD Piyal Ahmmed

☎ (+88) 01880288682 - ✉ [yasinarafath21@gmail.com](mailto:yasinarafath21@gmail.com) - in [MD Piyal Ahmmed](#) - 🌐 [Piyal](#)

## EDUCATION

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**Ahsanullah University of Science and Technology**  
*Bachelor of Science in Computer Science and Engineering*

Dhaka, Bangladesh  
2025

**Birshreshtha Noor Mohammad Public College**  
*Higher Secondary Certificate*

Dhaka, Bangladesh  
2019

**A.K. High School and College**  
*Secondary School Certificate*

Dhaka, Bangladesh  
2017

## THESIS

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- **Gender Bias Mitigation for Bangla Classification Tasks** [\[Link\]](#)
  - Developed four manually annotated datasets for sentiment analysis, toxicity detection, hate speech detection, and sarcasm detection in Bangla.
  - Used a **gender-name swapping technique** to detect gender bias in pretrained models.
  - Implemented **joint loss optimization** (cross-entropy + cosine similarity) to mitigate bias in Bangla NLP tasks.
  - Evaluated on **Bangla BERT-based models** and achieved **improved fairness without compromising accuracy**.
  - **Technologies Used:** Python, PyTorch, TensorFlow, NLP, Transformers (BERT).

## PROJECTS

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- **Linkdin Post Generator [ GEN AI ]** — [Link](#)
  - Built an automated content generation tool that mimics LinkedIn influencers' writing style using few-shot prompting.
  - Developed an interactive UI using Streamlit for selecting post topic, tone, and length with real-time preview.
  - Integrated OpenAI's LLM backend to ensure high-quality, stylistically aligned post generation.
  - **Technologies Used:** Python, OpenAI, Streamlit, Prompt Engineering.
- **Credit Card Fraud Detection System** — [Link](#)
  - Built a fraud detection pipeline using the public Credit Card Transactions dataset.
  - Implemented and compared classification models: Logistic Regression, SVM, Random Forest, and K-Nearest Neighbors.
  - Conducted data preprocessing, normalization, and addressed class imbalance for improved detection.
  - Evaluated model performance using confusion matrix and classification reports.
  - **Technologies Used:** Python, Scikit-learn, Pandas, Matplotlib, Jupyter Notebook.

## TECHNICAL SKILLS

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**Programming Languages:** Python, C++, Java

**Libraries and Tools:** Pydentic, Numpy, Pandas

**ML Architectures:** ANN, CNN, NLP

**Databases:** MySQL, PostgreSQL

**Frameworks:** LangChain, LangGraph, PyTorch, TensorFlow

**API:** FastAPI, REST API

**Others:** Data Structures, Algorithms, OOP