

MD Piyal Ahmmed

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EDUCATION

Ahsanullah University of Science and Technology Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering (CGPA - 2.815/4.00)

Birshreshtha Noor Mohammad Public College Dhaka, Bangladesh
Higher Secondary Certificate (GPA - 5.00/5.00) 2019

A.K. High School and Collegel Dhaka, Bangladesh
Secondary School Certificate (GPA - 5.00/5.00) 2017

THESIS PROJECT

- **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).

ACADEMIC PROJECTS

- **Donate Your Blood —** [Link](#)
 - Developed a full-stack web application to connect blood donors and recipients using PHP, MySQL, HTML, CSS, and JavaScript.
 - Designed and implemented donor registration, login system, and recipient request forms for efficient user interaction.
 - Built a search and filter feature to match blood donors with recipients based on blood type and location.
 - Structured and managed a MySQL database to store and retrieve donor and recipient information securely.
 - Ensured responsive design for accessibility across desktop and mobile devices, improving user experience.
- **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

Programming Languages: Python, C++, Java

Libraries and Tools: PyTorch, TensorFlow

ML Architectures: CNN, NLP

Databases: MySQL, PostgreSQL

Frameworks: Numpy, Pandas, Langchain, LangGraph, Pydantic, FastAPI

Others: Data Structures, Algorithms, OOP