




# MD. Ariful Islam Shakil

 [ariful-islam-shakil-69b42b2a8](#)

 [arif.cse18cuets@gmail.com](mailto:arif.cse18cuets@gmail.com)

 [Ariful-Islam-Shakil](#)

 01875 615375

 Chattogram

## EDUCATION

Chittagong University of Engineering and Technology

Chattogram, Bangladesh

B.Sc. in Computer Science and Engineering — CGPA: 3.35

2019 – 2024

## SKILLS

**Programming Languages:** Python, C, C++, Java, JavaScript  
**Frontend:** HTML, Tailwind CSS, React JS, Next.JS  
**Backend & Cloud:** Spring Boot, FastAPI, AWS (DynamoDB, S3)

**Development Tools:** GitLab (Project Management), VS Code, IntelliJ IDEA, LaTeX, Git, Docker  
**Other Skills:** Machine Learning, Deep Learning, OOP, Data Structures, Algorithms, MySQL, AgenticAI

## EXPERIENCE

**Software Engineering Intern (AI/ML)** — [Cloudly Info Tech](#) — March 2025 - Present — [GitHub](#)

- Developed end-to-end ML pipelines with TDD, utilizing AWS services (DynamoDB, S3), and integrated via FastAPI
- Contributing to an Agentic AI tool for legacy code analysis and automated refactoring

**Industrial Attachment** — [Synesis IT](#) — September 2023

- Developed a full-stack CRUD application using React and Spring Boot.
- Designed and implemented RESTful APIs for data management.

## PROJECTS

- **Digital Resource Management System** — *FastAPI, React, AWS (S3, DynamoDB), YOLOv8, Pytest* — [🔗](#)
  - Built full-stack employee management app with FastAPI & React
  - Integrated AWS S3, DynamoDB, and YOLOv8 for smart image tagging
  - Implemented CRUD, real-time search, and Pytest-based unit testing
- **Tesla Stock Forecasting** — *Deep Learning, Machine Learning, Python, TensorFlow, Scikit-learn* — [🔗](#)
  - Developed a stock price forecasting system for Tesla using traditional ML and deep learning models
  - Performed end-to-end data preprocessing, feature engineering, and model training
  - Implemented model evaluation and real-time inference for prediction deployment
- **Stock Management System** — *React, Spring Boot, Tailwind CSS, MySQL* — [🔗](#)
  - Designed an inventory management system to track product stock and sales
  - Implemented customer and product management functionalities
  - Built and integrated RESTful APIs for efficient data handling

## PROBLEM SOLVING

I have solved 300+ problems on online judges.

**Codeforces** — [Arif.1804072](#) — (Max Rating: 1046)

**LeetCode** — [Arif.CSE18.CUET](#)

## ACHIEVEMENTS

**Participated in DravidianLangTech@EACL 2024** — CUET\_Binary\_Hackers

- Malayalam Fake News Detection (3rd in Task 1 & 1st in Task 2) [🔗](#)
- Sentiment Analysis in Tamil and Tulu (3rd in Tamil & 1st in Tulu) [🔗](#)
- **Coursera Course Certificates:** *Machine Learning Specialization* — [🔗](#)

## THESIS

- **Sensor-Based Activity Recognition** — Python, Deep Learning — [🔗](#)
  - Conducted research on classifying human activities using raw smartphone sensor data (accelerometer, gyroscope).
  - Applied preprocessing steps: cleaning, normalization, segmentation, and windowing for time-series data.
  - Engineered statistical and temporal features to improve model input quality.
  - Developed and trained deep learning models including CNN, LSTM, hybrid CNN-LSTM architectures, and incorporated attention mechanisms to enhance classification accuracy.
  - Evaluated model performance using accuracy, precision, recall, and F1-score on benchmark datasets.