

MD. Ariful Islam Shakil

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 Ariful-Islam-Shakil

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 Chattogram

EDUCATION

Chittagong University of Engineering and Technology

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

Chattogram, Bangladesh

2019 – 2024

SKILLS

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

Development Tools: GitLab (Project Management), VS Code, IntelliJ IDEA, LaTeX, Git, Docker

Frontend: HTML, Tailwind CSS, React JS, Next.JS

Other Skills: Machine Learning, Deep Learning, OOP,

Backend & Cloud: Spring Boot, FastAPI, AWS (DynamoDB, S3)

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.