

Md. Jillur Rahman Zihad

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in LinkedIn

🔗 GitHub

📍 Ishwardi, Pabna

Education

Chittagong University of Engineering & Technology

Feb 2020 - June 2025

BSc in Computer Science & Engineering

CGPA: 3.90/4.00

Rajshahi Govt. City College

June 2017 - May 2019

Science

GPA: 5.00/5.00

Sara Marwari High School, Pabna

Jan 2012 - March 2017

Science

GPA: 5.00/5.00

Relevant Coursework

- Structured Programming
- Database Management System
- Digital Image Processing
- Data Structure and Algorithms
- Operating System
- Machine Learning
- Object Oriented Programming
- Software Engineering
- Big Data

Experience

Industrial Attachment Trainee — Robi Axiata Ltd.

Dec 2024- Jan 2025

Throughout this period, we collaborated to develop a **machine learning project** focused on **anomaly detection, customer satisfaction analysis and customer segmentation**. [View Project](#)

Technical Skills

Programming Language: C/C++

Web Development: HTML, CSS, JavaScript, MySQL

Project Management: Git

Android Development: Kotlin, Firebase

Machine Learning: Python, Pandas, Numpy,

Theoretical: Computer Vision, Neural Architectures,

Scikit-learn, PyTorch, TensorFlow, Keras, Transformers

Optimization Algorithms

Coding Profiles

Codeforces codeforces.com/profile/Zihad_28

Maximum Rating: 1376 (Pupil)

Codechef codechef.com/users/zihad1783

Maximum Rating: 1546 (2 Stars)

Achievements and Activities

- **13th place** in the **CUET Intra-University Programming Contest** in 2023, out of 53 participants.
- Solved **1500+** problems and participated in **70+** contests on different online judges.
- **Mobile Application Development Certification** awarded in 2025 by **Enhancing Digital Government and Economy (EDGE)**.
- Completed the **Neural Networks and Deep Learning** specialization (July 2023) and the **Convolutional Neural Networks** course (September 2023) through **Coursera**, offered by **DeepLearning.AI**.

Projects and Thesis

Image Caption Generator — Python, Flutter, TensorFlow/Keras

Oct 2023 - Feb 2024

In a team of three, I developed a machine learning-based Caption Generator App with context-aware captions and accessibility for visually impaired users, contributing to data preparation, model development, Flutter integration, and deployment.

Ignited Minds: An STEM Learning Platform — HTML, CSS, JavaScript, MySQL

April 2023 - Sep 2023

In a team of three, we created a STEM learning platform for students of all levels, featuring a responsive design with dark and light modes, interactive tools, quizzes, and resource libraries to make science, technology, engineering, and mathematics accessible and engaging.

Thesis: Single Image Deraining through Multi-scale Rain Streak Removal Using Deep Learning — *Python, PyTorch (In Progress)*

Mar 2024 - Present

Developed a novel PDAformer model with physics-aware directional axial attention, cross-gated multi-scale feedforward, and Multi-Scale Contextual Feature Enhancement Module with spatial-channel attention, achieving competitive state-of-the-art deraining performance on benchmarks.

Publications

Single Image Deraining via Multiscale Transformer Architecture with Progressive Feature Enhancement

Under Review, 3rd International Conference on Big Data, IoT and Machine Learning (BIM 2025), Submitted June 2025

Authors: Md. Jillur Rahman Zihad, Co-author 1, Co-author 2

- Proposes a transformer-based deraining model integrating multiscale feature fusion and progressive restoration to effectively remove spatially-varying rain streaks.
- Demonstrates competitive performance against several state-of-the-art models on standard benchmark datasets.

References

Reference 1

Name: Dr. Kaushik Deb
Organization: CUET
Designation: Professor
Address: Dept. of CSE, CUET
Contact: 01914745508
Email: debkaushik99@cuet.ac.bd
[!\[\]\(c50c8b7b2cc2cf9ff925edec0ee94c0d_img.jpg\)](#)
Relationship: Supervisor

Reference 2

Name: Dr. Abu Hasnat Mohammad Ashfak Habib
Organization: CUET
Designation: Professor
Address: Dept. of CSE, CUET
Contact: 88031714920
Email: ashfak@cuet.ac.bd [!\[\]\(9c2e8d1b5bd77cb5c9f83b7a9cff79fd_img.jpg\)](#)
Relationship: Academic