

PRITOM PAUL

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EDUCATION

North East University Bangladesh

B.Sc. (Engineering), Department of Computer Science and Engineering

Sylhet, Bangladesh

May 2024

CGPA: 3.71/4.00

RESEARCH INTEREST

- Deep Learning
- Natural Language Processing (NLP)
- Computer Vision (CV)
- Large Language Model (LLM)

RESEARCH EXPERIENCE

Handwritten Bangla Word Recognition Through Image-to-Sequence Extraction

Undergraduate Thesis, North East University Bangladesh.

January 2023 – December 2023

- Advisor:** Tasnim Zahan
- Designed and trained an Image-to-Sequence OCR model for handwritten Bangla word recognition.
- Built a CNN–BiLSTM architecture in Python/TensorFlow with a CTC-based sequence decoder.
- Collected, curated, and preprocessed 19,066 handwritten samples from CMATERdb, BanglaWriting, and self-generated data.
- Reached accuracy of 93.71%, demonstrating strong generalization even with a modest dataset size.

TEACHING EXPERIENCE

North East University Bangladesh

Adjunct Faculty, Department of Computer Science and Engineering.

Sylhet, Bangladesh

January 2025 – Present

- Teach core undergraduate courses including **Compiler Construction**, **Compiler Construction Lab**, **Software Engineering and Design Patterns**, **Software Engineering and Design Patterns Lab**, **Numerical Analysis**, **Numerical Analysis Lab**, **Introduction to Statistics**, and **Introduction to Computer Applications**.
- Instruct and mentor more than 200 students across multiple semesters, emphasizing conceptual clarity, problem-solving, and hands-on practice.
- Develop lectures, lab modules, and assessments aligned with program objectives and industry-relevant practices.

STANDARDIZED TEST SCORE

International English Language Testing System (IELTS)

08 February 2025

Listening	Reading	Writing	Speaking	Overall Band Score
9.0	6.5	6.0	7.0	7.0

PROFESSIONAL EXPERIENCE

101 BD TECH

Software Engineer (Full Time)

Jamalpur, Bangladesh

July 2024 – December 2024

- Built core components of a WebRTC-powered Learning Management System for both web and desktop platforms.
- Wrote clean, efficient code in Python and JavaScript, and improved system performance through debugging and optimization.
- Designed scalable application modules and implemented backend integrations using SQL and NoSQL databases.
- Maintained technical documentation, collaborated within the SDLC workflow, and managed version control using Git.

VOLUNTEER EXPERIENCE

North East University Bangladesh CSE Society

Associate Programming Instructor

January 2021 – December 2023

- Instructed approximately 100 junior undergraduate students in programming languages (C/C++, Python), data structures, algorithms, and problem-solving.
- Spearheaded the organization of 3-4 programming contests and actively participated in problem development.

COMPETITIVE PROGRAMMING EXPERIENCE

- ICPC Asia Dhaka Regional Contest – 2021 | Team: NEUB_TeamXero
- ICPC Asia Dhaka Regional Contest – 2022 | Team: NEUB_TeamXero
- ICPC Asia Dhaka Regional Contest – 2023 | Team: NEUB_Believers
- NCPC ONSITE – 2023 | Team: NEUB_Believers

PROJECTS

TripIt (Web Application)

- Used HTML, CSS, PHP, JavaScript & MySQL.
- Features: Login, registration, find travel destinations, book hotels, blog, etc.
- Source Code: https://github.com/PritomPaul99/TripIt_SEProject

Handwritten English Word Recognition (Machine Learning Project)

- Used CNN, RNN (Bi-LSTM), CTC Loss, etc.
- Recognizes handwritten English words. Takes a single-word image as input and predicts the written word in the image.
- Source Code: <https://github.com/PritomPaul99/Handwritten-English-Word-Recognition-Using-CNN-RNN-Model>

SKILLS SUMMARY

- **Programming Languages:** C/C++, Python, Java, JavaScript, PHP, Go.
- **Web Development:** HTML, CSS, Bootstrap, Tailwind CSS, React, Node.js.
- **Machine Learning:** Deep Learning, Computer Vision, TensorFlow, Keras, Scikit-learn, PyTorch, etc.
- **Database Management System:** MySQL, MongoDB.
- **Tools:** Git, Github, Jira, Figma, LaTeX.
- **Others:** Object Oriented Programming (OOP), Software Development Life Cycle (SDLC).

REFERENCE

Dr. Mohammad Shahidur Rahman

Professor

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