

OPI BISWAS

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📁 Portfolio in opi-biswas-cse

ABOUT ME

Computer Science and Engineering graduate with an interest in Artificial Intelligence, Machine Learning and Computer Vision. I have developed practical skills in Python, C, C++ and Java through research and project work. Seeking M.Sc. opportunities to advance research in artificial intelligence and computer vision to contribute to solving complex computational challenges.

EDUCATION

Bachelor of Science in Computer Science and Engineering	CGPA: 3.63/4.00
University of Chittagong	Jan. 2020 – Aug. 2025
Higher Secondary Certificate (HSC) in Science	GPA: 5.00/5.00
Saidpur Government Science College, Saidpur, Nilphamari	Jun. 2017 – May 2019
Secondary School Certificate (SSC) in Science	GPA: 5.00/5.00
Lions School and College, Saidpur, Nilphamari	Jan. 2015 – Feb. 2017

RESEARCH AND SOFTWARE DEVELOPMENT SKILLS

Research Field Skills: Statistics, Machine Learning, Image Processing, Computer Vision

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

Data Visualization Software Skills: Jupyter Notebook, Kaggle, Google Colab

Web Development: HTML, CSS, JS



Problem Solving: Solved 600+ problems on Codeforces competitive programming platforms

UNDERGRADUATE THESIS

A Hybrid YOLOv5 and Graph-Based Segmentation Framework for Bangladeshi License Plate Recognition

Developing novel computer vision techniques combining state-of-the-art object detection with graph-based segmentation methods. Focusing on challenges specific to Bangladeshi license plate formats and conditions.

PROJECTS

- **Research Lab Management System**  *Individual Project, 2024*
HTML · CSS · JavaScript · MySQL – Developed a web-based platform to streamline research lab operations, including member profiles, publication tracking, event scheduling, and resource sharing. Integrated role-based access control for administrators and implemented advanced search functionality for efficient data retrieval. Followed modular architecture for scalability and long-term maintenance.
- **Rice Leaf Disease Detection App**  *Individual Project, 2024*
Android SDK · Java · TensorFlow Lite – Developed an Android mobile app to identify and classify rice leaf diseases using machine learning. Trained a Convolutional Neural Network (CNN) model to detect diseases like Bacterial Blight and Leaf Smut from leaf images. Integrated TensorFlow Lite for real-time on-device inference without the need for internet access.

ACHIEVEMENTS & CERTIFICATIONS

- 2nd Runner-Up, Intra Department Database Project Showcasing, University of Chittagong *Aug 2023*
- Full Stack Web Development Certification, Enhancing Digital Government and Economy (EDGE) Program (Credential ID: EDGE-DSTS-105-8369-00009) *Aug 2025*
- Data Analysis with Excel Certification, FutureNation and UNDP Bangladesh *Aug 2025*

LEADERSHIP

General Secretary – Nilphamari Student Association, University of Chittagong

Role: Leading and coordinating activities for students from Nilphamari district at the university.

Vice President – Shaheed Abdur Rab Hall Sports Club, University of Chittagong

Role: Organizing and managing sports activities and events for hall residents.

Vice President – Shaheed Abdur Rab Hall Career Club, University of Chittagong

Role: Coordinating career development workshops and professional skill-building activities for hall residents.

EXTRACURRICULAR ACTIVITIES

Volunteer – Junior Programming Contest (BCC)

Provided technical support for school-level programming contest organized by Bangladesh Computer Council under ICT Division. 2025

Technical Support – IT Fiesta 2024 (CUSS)

Technical team member, Inter-University Programming Contest organized by Chittagong University Scientific Society. 2024

RELEVANT COURSEWORK

Core Computer Science: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Software Engineering

Mathematics & Statistics: Discrete Mathematics, Linear Algebra, Probability and Statistics, Numerical Methods

AI/ML Focus: Machine Learning, Artificial Intelligence, Computer Vision, Pattern Recognition, Digital Image Processing

LANGUAGES

Bengali: Native | **English:** Fluent | | **Hindi:** Conversational