

# Priyotosh Roy

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## EDUCATION

**University of Engineering and Management, Kolkata**  
*Bachelor of Technology, Computer Science and Engineering, 8.88 GPA*

Newtown, Kolkata  
Aug 2022 – May 2026

**Chhatrashal Radhanagar Bireswar High School**  
*Higher Secondary, 90.6 %*

Chhatrashal, Hooghly  
July 2020 – May 2022

## EXPERIENCE

**Artificial Intelligence and Prompt Engineering Intern** June 2025 – July 2025  
*VaultofCodes - AICTE Approved* Remote

- Built an AI assistant using **Flask**, **HTML/CSS**, and **OpenRouter API** to answer questions, summarize text, and generate creative content
- Used **Python requests** and **dotenv** for secure API handling with free AI models

**Cyber Security Intern** Jan. 2025 – Feb 2025  
*Edunet Foundation (IBM SkillBuild)* Remote

- Built a **Python** tool with **OpenCV** to securely hide and retrieve messages in images; **ensured 100% retrieval accuracy** using password protection.
- Used separate scripts for **encryption and decryption** to ensure secure message transfer.

**Artificial Intelligence Intern** Nov 2024 – Dec 2024  
*Edunet Foundation (Microsoft and SAP CSR)* Remote

- Developed an attendance system using **Python**, **OpenCV**, and **Tkinter** that marks attendance by recognizing faces.
- Saved records in **MySQL** and added features like image capture, manual entry, **CSV reporting**, and a simple UI.

## PROJECTS

**AI-IoT Based Underwater Monitoring System for Water Quality Indexing**

**Aquatic Sound Detection and Tx/Rx Communication** June 2024 – On Going

- Contributing to an **AI + IoT-based system** to monitor water quality, detect aquatic sounds, and support underwater communication.
- Focused on designing and implementing Tx/Rx modules for real-time data transmission and reception.

**LeafScan – Python, OpenCV, Keras** May 2025 – June 2025

- Designed a system to detect plant diseases from leaf images with high accuracy.
- Used image processing and deep learning to give fast and reliable results.

**Attendance Management System Using Face Recognition – Python, Pandas, OpenCV** Nov 2024 – Dec 2024

- Developed a system to mark attendance by recognizing faces in real time, with image capture and manual entry options.
- Stored all records securely in a database and allowed CSV export for easy report generation.

## SKILLS & INTERESTS

**Languages:** Java, Python, C, JavaScript, HTML/CSS

**Developer Tools:** Git, GitHub, Docker, Figma, Canva, VS Code, Visual Studio, Jupyter Notebook, IntelliJ

**Database:** MySQL

**Libraries:** NumPy, Pandas, OpenCV, Keras

**Interests:** Data Structures and Algorithms, Object-Oriented Programming, DBMS, Operating Systems, REST API

## ACHIEVEMENTS

**Solved 500+ DSA problems** on platforms like LeetCode, HackerRank, and GFG; earned **5-Star rating on HackerRank**.

**LeetCode 50 Days Badge:** awarded for consistent problem-solving and coding discipline.

**1st Rank in School** – secured top position in Higher Secondary Examination.