

# Priyotosh Roy

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## EDUCATION

### University of Engineering and Management, Kolkata

Bachelor of Technology, Computer Science and Engineering

Newtown, Kolkata

Aug 2022 – May 2026

### Chhatrashal Radhanagar Bireswar High School

Higher Secondary

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

June 2024 – On Going

### Aquatic Sound Detection and Tx/Rx Communication

- 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.