Priyotosh Roy

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Education

University of Engineering and Management, Kolkata — Newtown, Kolkata
Bachelor of Technology, Computer Science and Engineering, 8.88 GPA — *Aug 2022 – May 2026*

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

Achievements

Solved 500+ DSA problems on platforms like LeetCode, HackerRank, and GFG; earned **5-Star rating on HackerRank**.
LeetCode 100 Days Badge: awarded for consistent problem-solving and coding discipline.
1st Rank in School – secured top position in Higher Secondary Examination.