Pritam Ghosh

Arambagh, West Bengal, India

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EDUCATION

University of Engineering and Management | Aug 2022–May 2026
Bachelors of Technology in Electronics and Communication Engineering | **CGPA: 9.6/10** | Kolkata,Hooghly,West Bengal

Dhamsa P. C. Sen Institution | Apr 2020–Mar 2022
Senior Secondary and Secondary (Class XII & X) | **Percentage : 89.2 & 83.3** | Arambagh, Hooghly, West Bengal

EXPERIENCE

Research Intern | IISER Bhopal
- Worked on a machine learning project to predict new mineral locations using association rule mining. — May 2025
- Used real mineral data to support Earth and Mars-like mineral discovery with proven results. — IISER Bhopal, MP

Semiconductor Fabrication | Micron
- Hands-on experience in semiconductor fabrication using photolithography, etching, and deposition. — September 2024 — Hiroshima , Japan
- Skilled in process monitoring, yield analysis, and defect inspection in chip manufacturing. — On-Site , Full Time

PROJECT

IoT base AI-Enabled Poultry Disease Early Detection | Raspberry PI and sensors — Jan 2025 – Ongoing
- Our project focuses full stack development of Al-Enabled poultry disease detection system using deep learning technology.
- We're integrating various sensor in a microcontroller and collect real time data and analyse this data with threshold voltage.

ECG Graph Monitoring with AD8232 ECG sensor | Arduino Uno and Sensors — Jun 2024 – Sep 2024
- Built a real-time ECG monitoring system using the AD8232 sensor and microcontroller.
- Implemented signal filtering for accurate ECG graph display and analysis.

Weather Monitoring Application for Agriculture | Python, Jupyter Notebook — Feb 2024 – Jun 2024
- It dictates what kind of weather conditions which crops grow best.
- Api based applications where multiple place included.

News Application | Python, Jupyter Notebook — Jun 2023 – Dec 2023
- Create a News Web App using HTML, CSS, Java Script.
- It's a news API based applications where we are shown news from the world.

SKILLS AND INTERESTS

Languages: C, C++, JavaScript, SQL, Python.
Developer Tools: VS Code, Git and Github, Jupyter Notebook, EasyEdA, Scaps.
Technologies/Frameworks: HTML, CSS, ReactJS, NodeJS, Python Libraries (Matplotlib, Numpy, Seaborn and Pandas), Arduino, Mysql, Power BI, MS Excel.
Soft Skills: Problem Solving, Critical Thinking, Adaptability, Time Management, Leadership, Communication.

PUBLICATION

- Performance Augmentation of GaInP/GaAs Multi Junction Solar Cell: A PINN Driven Approach to Shallow Doped Layer Optimization – **Springer Publisher** [Manuscript submitted for publication]
- Design, Calibration, and Performance Analysis of a Multisensory AI Integrated System for Real- Time Poultry Health Monitoring and Disease Prevention – **Springer Publisher** [Manuscript submitted for publication]

CURTIFICATION

Certificate of Participation - Micron | VLSI Chip Design - L&T EduTech | Data Science, AI & Development - IBM
Certificate of Achievement - JST | Data Engineering & Machine Learning-Google

RELEVANT COURSE WORK

Data Structures and Algorithm, Database Management System, Object Oriented Programming.
Electronics Device, Digital Electronics, Signal & System.

EXTRA CURRICULAR

- Gained exposure to advanced research and showcased Indian traditions at an international cultural program.
- Represented UEM Kolkata in the Sakura Science Exchange Program 2024 at Hiroshima University, Japan. — Japan
- Member of India Sakura Science Club Alumni Association (ISSCA). — September 2024
- Received Student Project Grant from the university for my project and Selected by the government to visit and showcase a project demo.

HOBBIES

Football, Reading books, Music and Gaming.