Debjit Ghosh

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Professional Experience

HNNOIX INDIA ⌀
Trainee
Nov 2024 – Feb 2025 | Gurgaon, India
- Gained exposure to **6G communication systems**, network architecture, and future wireless technologies.

Projects

Kissan Helper – Smart Farming Assistant ⌀
Jan 2025 – May 2025
Tech Stack: **Python,Arduino UNO, IoT Sensors, React,Tailwind CSS, Express Js**

- Designed an ML- and IoT-based system for crop selection, disease prediction, soil analysis, and smart irrigation.
- Integrated ML models with 10+ sensor inputs to enhance yield and improve decision-making accuracy.

Crowdfunding Web App Using Blockchain ⌀
Jun 2024 – Aug 2024
Tech Stack: **Ethereum, Solidity, React js,Tailwind css, Web3.js, Ganache, MetaMask**
- Engineered a fullstack blockchain-based crowdfunding system using Ethereum and Etherscan to verify digital content authenticity.

Soilnutrient Using ML ⌀
Apr 2025 – May 2025
Tech Stack: **Python, Matplotlib, Pandas**

- Analyzed 18 soil features to predict suitability for 30+ crops using regression and classification models.
- Suggested top 5 alternative crops and visualized results with pie charts.

Education

University of Engineering and Management (UEM)
B.Tech in Computer Science
Aug 2022 – Jul 2026 | Jaipur, Rajasthan, India

Rajagram S.B Raha Institution
Higher Secondary
2019 – 2021 | Rajagram, Bankura
Grade: 93%

Awards

NMMS Scholarship
Ministry of Human Resource Development (MHRD) Govt. of India.
Aug 2016

Rank Card Holder
- *B.Tech in Computer Science, GPA: 9.30/10*

Profile

Motivated Computer Science student with hands-on experience in Machine Learning, IoT, Blockchain applications. Proficient in JavaScript, and C/C++, with strong foundations in Data Structures, Algorithms, and Software Development. Skilled in building data-driven solutions using React.js, Express.js and MongoDB. Recognized for strong problem-solving abilities and proven performance in hackathons and academic projects, eager to contribute to innovative software and AI/ML development teams.

Skills

- C/C++, JavaScript
- Git, GitHub, VS Code
- HTML5, Tailwind CSS, React.js, Express.js
- MongoDB, SQL, Firebase
- OOPS
- Data Structure And Algorithms
- Debugging, Problem Solving, Design, Collaboration

Organisations

Ace Hack 4.O ⌀
PARTICIPANT
Mar 2025 – Mar 2025 | Jaipur, Rajasthan, India
Achieved 15th place (800+ participants) – Implemented smart farming system.

HackUEM 2.0
PARTICIPANT
Sep 2024 – Sep 2024 | Jaipur, Rajasthan, India
Secured 3rd place (200+ participants) – Deployed ML-based solution for Smart Water Irrigation System.

Ace Hack 3.O
PARTICIPANT
Apr 2023 – Apr 2023 | Jaipur, Rajasthan, India
Attained 11th place (700+ participants) – Innovated a Counterfeit Detection System.

Courses

DATA SCIENCE USING PYTHON ⌀
IIT Madras
Jan 2024 – Apr 2024

PROBLEM SOLVING USING C ⌀
IIT Kharagpur
Jul 2023 – Oct 2023

Joy of Computing Using Python ⌀
IIT, Madras
Jan 2023 – Apr 2023