Ayush Ghosh

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EDUCATION

Institute of Engineering and Management, Kolkata   **2022 – 2026**
Bachelors of Technology in Computer Science and Engineering (Internet Of Things)
▪ Current CGPA :9.03

Delhi Public School Megacity, Kolkata   **2021**
Indian School Certificate (ISC) - 93.4%

Delhi Public School Megacity, Kolkata   **2019**
Indian Certificate of Secondary Education (ICSE) - 96.4%

PROJECTS

Exercise Tracker Web App with Rep Counting
- Developed a real-time exercise tracking system leveraging the MediaPipe pose estimation model and OpenCV.
- Utilized Flask and Socket.IO to create a responsive web application capable of accurately counting repetitions for various exercises

ComplaintConnect: Grievance Redressal System

- Developed and deployed **ComplaintConnect**, a grievance redressal system using Node.js, Express.js, and MongoDB for complaint submission and tracking.
- Implemented geolocation-based authority assignment using the Haversine formula to match complaints to relevant officials within a 5km radius.
- Integrated an interactive map with real-time complaint visualization, enabling users and authorities to monitor and manage grievances efficiently.

Real-time Messaging App
- Designed and implemented a real-time chat application using the MERN stack and Tailwind CSS for responsive design and styling.
- Integrated Socket.IO for instant messaging functionality and Zustand for efficient state management.

SKILLS

Programming Languages: Java, C
Technical Skills: Blender, Unity, Computer Vision, React, MongoDB, Node.js, Webscokets, Tailwind CSS, Flask, Google Earth Engine, ArcGIS

ACHIEVEMENTS

- Published a survey paper, *"Machine Learning Through Quantum Computing: Validation of a New and Sustainable Approach,"* in the *International Journal of Innovative Research in Physics (IJIIP).*
- Awarded First Prize in the IEEE Solid-State Circuits Society Poster Presentation.
- Secured First Prize in the IEMPHYS 2023 Poster Presentation.