

Amritesh Kumar

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EDUCATION

Indian Institute of Engineering Science and Technology, Shibpur B.Tech in Information Technology; CGPA: 8.67/10.00(upto 5th semester)	2022 – 2026 Howrah, West Bengal, India
Delhi Public School Hyderabad Higher Secondary Education; CBSE Board score: 91.8%	2021 Hyderabad, Telangana, India
Genesis International School, Miyapur Secondary Education; CBSE Board score: 95.6%	2019 Hyderabad, Telangana, India

PROJECTS

NeuroGrade- AI Powered Teacher Assistant 🔗

- Collaborating with a team of four members to builds an AI-powered teacher assistant that automates assignment grading and provides personalized feedback to students.
- Enabled seamless faculty dashboards, student management, and feedback history tracking with scalable APIs.
- Utilizing **Next.js** and **React.js** for frontend development.
- Implementing **Node.js** and **Express.js** for backend services.
- Using **MongoDB** for efficient data storage.
- Integrating **Google Gemini API** and **Google Cloud Vision API** for AI-driven enhancements.

Skill Finder 🔗

- A web application connecting users based on shared skills, where user can search for other individual's sharing user's skills and collaborate with them.
- Created dynamic front-end components with **React.js**, enhancing user experience and enabling skills based searches.
- Using **Node.js**, **Express.js** for back-end and **MongoDB** for data storage.

Cultural Canvas | GitHub 🔗

- Collaborated with a team of four members who developed the platform dedicated to promoting the local artists, food, culture, and tourism in West Bengal, India.
- Implemented responsive design using **Bootstrap** to ensure optimal viewing experience across various devices.
- Artisans can apply to feature on this Website to showcase their unique creations.
- Utilized **HTML**, **CSS**, and **JavaScript** to create interactive and user-friendly web pages and and **Query Bot** for seamless user interactions.

SynchroFlow- Smart Traffic Management System | GitHub 🔗

- It is a machine learning-based model for smart traffic management system using image processing.
- By using **YOLO** object detection algorithm, it determines the number of cars and adjusts the traffic signal timings to manage the flow of vehicles.
- This approach aims to reduce traffic congestion and improve the flow of road transport within the city.

ACHIEVEMENTS

- Selected for the **Regional Bootcamp** phase of the **Google Solution Challenge 2024** with the **Cultural Canvas** project.
- Solved **350+ problems** across **LeetCode**, **Codeforces**, **GeeksforGeeks** and **CodeChef** combined to build problem solving skills. Earned a **100 day badge** for the year **2025** and a **50 day badge** for the year **2024** on LeetCode.
- **3 Star** at **CodeChef** with a **max rating** of **1692**.
- **5 Star** Coder in **HackerRank(C++)**.
- Secured a rank of **1272** in **CodeFest'25 Prelims**, conducted by the **IICPC**.
- **CodeChef contest**: Secured a **global rank** of **245** in CodeChef Starters 170.
- Participated in HackNITR 5.0 Hackathon, organized by NIT Rourkela, and contributed to a collaborative project, demonstrating development and problem-solving skills.

SKILLS

- Programming Languages: C, C++, JavaScript, Python
- Developer Tools: VS Code, GitHub
- Web Development: HTML, CSS, Bootstrap, React.js, Node.js, Express.js, MongoDB
- Database: MySQL
- Familiar: Object Oriented Programming
- Machine Learning and Deep Learning: Pandas, NumPy, Scikit-learn, Matplotlib, YOLO

VOLUNTEERING

Entrepreneurship Development Cell, IIST Shibpur

Content Writer

Creating engaging and informative content to support and promote entrepreneurship initiatives, programs, and events of the Cell.

LitSoc - The Literary Society of IIST Shibpur

Core Member

As a core member of LitSoc, I curate poetry slams, open mic nights and manage club operations.