Amritesh Kumar

📞 +91 8639370847 ✉ amritesh.kr19@gmail.com in LinkedIn ⬡ Github ♟ CodeChef 📍 West Bengal, India

EDUCATION

Indian Institute of Engineering Science and Technology, Shibpur
B.Tech in Information Technology; CGPA: 8.59/10.00(upto 3rd semester)
2022 – 2026
Howrah, West Bengal, India

Delhi Public School, Hyderabad
Higher Secondary Education; CBSE Board score: 91.8%
2019 – 2021
Hyderabad, Telangana, India

Genesis International School, Miyapur
Secondary Education; CBSE Board score: 95.6%
2015 – 2019
Hyderabad, Telangana, India

SKILLS

- Programming Languages: C, C++, Python, JavaScript

- Technologies: Git, GitHub

- Web Development: HTML, CSS, Bootstrap 5

- Database: MY SQL

- Familiar: Object Oriented Programming

- Cloud Platforms: Good Knowledge in AWS Cloud

PROJECTS

B.Tech Project(ongoing)
- We're deploying **SynchroFlow**, an advanced AI system driven by **deep learning** for **Smart Traffic Management System** using image processing.
- Our approach involves training neural networks to recognize complex patterns in traffic data, enabling applications like object detection and anomaly spotting.
- Traffic congestion is identified through the application of Object Detection Algorithms, such as YOLO, on CCTV camera images of junctions taken at regular intervals.
- Using this data on congestion levels across different junctions, a congestion removal algorithm will determine optimal durations for red traffic lights. This approach aims to reduce traffic congestion and improve the flow of road transport within the city.

Cultural Canvas
- A platform dedicated to promoting the local artists, food, culture, and tourism in West Bengal, India.
- Cultural Canvas is a website that helps tourists to explore the hidden gems of West Bengal, such as monuments, food, local art, and many more.
- Artisans can apply to feature on this Website to showcase their unique creations.
- User-friendly application built with **HTML, CSS**, and **JavaScript** with **intuitive UI** and **Query Bot** for seamless user interactions.
Link: Cultural Canvas ✎

Wellness Buddy
- This is a website that provides comprehensive health resources, integrates appointment booking features, and a user-friendly chatbot powered by the **Google Gemini API** that provide user with information on various diseases, their symptoms, causes and possible treatments.
- This was developed during the 24-hour HackNITR 5.0 hackathon hosted by NIT Rourkela.
- This platform is made by using **HTML**, **CSS**, **JavaScript** and **Python.**

CERTIFICATES

- Generative AI Fundamentals ✎

- Introduction to Generative AI ✎

- Introduction to Large Language Models ✎

- Introduction to Responsible AI ✎

ORGANIZATIONS

Entrepreneurship Development Cell, IIEST 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 IIEST Shibpur
Core Member
As a core member of LitSoc, I curate poetry slams, open mic nights and manage club operations.