SHUBHAM KUMAR

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EDUCATION DETAILS

Lloyd Institute of Engineering and Technology, Greater Noida (AKTU)	B.Tech	2022-2026	current - 75%
Azad Public School, Bulandshahr (CBSE)	12th	2021-2022	75%
Azad Public School, Bulandshahr (CBSE)	10th	2019-2020	83%

PROJECT DETAILS

Route System - Map | Leaflet, JavaScript

- Developed an interactive route time estimation system using Leaflet to visualize travel durations between geographic points.
- Integrated dynamic map rendering and real-time distance calculations, enabling users to input start and end locations for streamlined route planning.
- Designed for simplicity and efficiency, reducing user effort in travel time estimation.
- Leveraged Leaflet's geolocation APIs for accurate coordinate mapping and seamless user experience.

Carbon-Aware Model Router – Dashboard | Streamlit, FastAPI

- Built an intelligent system for selecting the most carbon-efficient AI model using real-time carbon intensity data.
- Integrated Streamlit for interactive dashboards and FastAPI for backend model routing.
- Enabled smart model switching (TinyLlama, CodeLlama, GPT-2) with real-time carbon and performance monitoring.
- Leveraged Prometheus and Grafana for system metrics, enhancing visibility and sustainability insights.

NFTVerse – NFT Minting System | Solidity, Hardhat, Node.js, IPFS, Polygon

- Developed a full-stack NFT minting dApp allowing users to mint and view NFTs on OpenSea using custom metadata.
- Implemented smart contracts with Solidity and Hardhat, deployed on Polygon via Alchemy RPC.
- Integrated IPFS (via Pinata/NFT.Storage) for decentralized metadata storage and retrieval.
- Enabled wallet-based minting with Ethers.js, with real-time feedback and URI generation through a dynamic frontend.

MentorClass – Mentorship Platform | React.js, Node.js, MongoDB, TailwindCSS

- Built a full-stack web platform connecting students with mentors for real-time, personalized learning sessions.
- Developed secure user authentication using JWT and implemented interactive features for seamless mentor-mentee collaboration.
- Used MongoDB for storing user profiles and session data, enabling dynamic scheduling and feedback.
- Designed a responsive, modern UI with React.js and TailwindCSS to enhance user experience across devices.

TECHNICAL SKILL

- **Programming Languages:** C/C++, Java, Python
- **Database Management:** MongoDB
- **Web Development:** React, Tailwindcss, NodeJS, JavaScript (HTML, CSS), XML
- **Systems & Tools:** Linux, Windows, Git, Jupyter Notebook, Google Colab
- **Problem Solving:** Data Structures & Algorithms (DSA) with C/C++

CERTIFICATES

- React Tutorial - Great Learning
- MongoDB Node Developer Path
- Cybersecurity Essentials - CISCO Networking Academy
- Introduction to Cybersecurity - CISCO Networking Academy

PERSONAL DETAILS

- **DOB:** 6 July, 2004
- **Address:** H.No. 22A Gyan Lok Colony, Near Awas Vikas 1st, D.M Road, Bulandshahr, Uttar Pradesh - 203001
- **Languages:** Hindi, English