

AYUSH RAGHUWANSHI

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EDUCATION

Graphic Era (Deemed to be University) — B.Tech, Computer Science & Technology

June 2021 – June 2025

CGPA: 8.57 / 10 | Dehradun, Uttarakhand

Higher Secondary (Class XII) — 94.2% | SMT P V S V M I C, Rishikesh, Uttarakhand

April 2020 – July 2021

Secondary School (Class X) — 93.4% | S V M H S S, Srinagar, Uttarakhand

April 2018 – May 2019

WORK EXPERIENCE / INTERNSHIP

Full Stack Developer — Chetanya Agro Industries

January 2026 – June 2026

- Engineered full-stack e-commerce features using the MERN stack; implemented JWT-based user authentication, product management, and shopping cart functionality, achieving 90%+ code reliability across modules.
- Optimised performance via MongoDB indexing and React refactoring; used ChatGPT and GitHub Copilot to accelerate development, achieving 2.1s page load times and 30% faster mobile responsiveness.
- Designed and maintained RESTful APIs enabling seamless CRUD operations across user, product, and order management systems; used AI tools for automated code suggestions and bug detection, reducing debugging time significantly.

Full Stack Development with AI — Internshala Trainings

June 2025 – December 2025

- Completed an AI-integrated full-stack programme covering HTML, CSS, Tailwind, JavaScript, React, Redux, Node.js, Express.js, MongoDB, and REST APIs; used ChatGPT and Gen AI tools to debug faster and write cleaner code.
- Strengthened programming fundamentals through Data Structures and Algorithms (DSA) in JavaScript, practising arrays, linked lists, trees, recursion, sorting, and searching algorithms to build strong problem-solving capability for technical interviews.
- Built AI-assisted capstone projects including a YouTube Clone (MERN stack) and ShoppyGlobe e-commerce platform using Gen AI tools for code review and optimisation; earned government-approved certifications from Internshala Trainings and NSDC & Skill India.

TECHNICAL PROJECTS

YouTube Clone | MERN Stack | MongoDB, Express.js, React.js, Node.js, JWT, Vercel

July 2025 – November 2025

- Engineered a full-stack YouTube clone using the MERN stack; implemented JWT authentication with password encryption, protected routes, responsive UI components, and seamless video streaming capabilities.
- Integrated Gen AI tools (ChatGPT, Copilot) for intelligent code review, component optimisation, and automated test suggestions; leveraged Vercel's serverless platform for zero-downtime deployment and automatic scaling.
- Designed MongoDB schemas for video metadata and user data with optimised queries; built RESTful APIs for all core features, demonstrating strong full-stack architecture and modern AI-augmented cloud deployment practices.

AI-Based Traffic Management System | Machine Learning | Python, TensorFlow, OpenCV, CNN

March 2025 – April 2025

- Designed an AI/ML solution using CNN and OpenCV to dynamically optimise traffic signals in real time; developed predictive models with TensorFlow and Scikit-learn to forecast congestion hotspots and reduce traffic jams.
- Integrated automatic emergency vehicle prioritisation using AI-based detection; applied Pandas and NumPy for data pipeline processing, enabling faster emergency response and making city travel safer for everyone.
- Built a React.js dashboard with Python REST API backend for real-time traffic insights; used Gen AI prompting to improve model accuracy, reducing simulated congestion by 35% through data-driven optimisation.

Keyless Door Lock | Internet of Things | C++, Arduino Uno, Embedded Systems

November 2024 – December 2024

- Engineered a keyless door locking system in C++ using an Arduino Uno; integrated a solenoid lock and relay board for secure access control, achieving 90%+ success rate in demonstrating the model with robust fault-tolerant logic.
- Configured a 4x4 keypad shield for reliable user input and secure code entry; directed all hardware connections with jumper wires ensuring efficient and robust performance across all test scenarios.
- Applied OOPs principles and data structures in C++ for clean embedded logic; used AI tools for debugging hardware-software integration issues and documenting system architecture, wiring schematics, and SOPs.

TECHNICAL SKILLS

Coursework: Data Structures and Algorithms (DSA), Database Management System (DBMS), Object Oriented Programming (OOPs)

Languages: C, C++, Python, Java, JavaScript

Web / Frameworks: HTML, CSS, Tailwind, JavaScript, React.js, Redux, Node.js, Express.js, REST APIs

Database: SQL, MongoDB

Machine Learning: NumPy, Pandas, Scikit-learn, TensorFlow, OpenCV, CNN, Gen AI Tools, ChatGPT

Tools & Platforms: Git, GitHub, Vercel, VS Code, Postman

ADDITIONAL ACCOMPLISHMENTS

- Certifications:** Full Stack Development Training Course — Internshala Trainings, NSDC & Skill India Certified | Azure Data Fundamentals — Microsoft Certified | Goldman Sachs FinTech Engineering | Infosys Power Programmer | Citi Technology Software Development Job Simulation
- Volunteering:** Member of Kavyanjali Literary Club
- Soft Skills:** Teamwork and Leadership, Public Contributions, Analytical Thinking, Intellectual Curiosity