





UTKARSH KUMAR UPADHYAY

Codechef | Codeforces | Leetcode | GeeksForGeeks |

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Degree/Board	Institution	Year	CGPA/%
B.Tech, EE	National Institute of Technology Raipur	2022 - Present	8.86/10.0
CBSE – XII	Maharishi Vidya Mandir Sr. Sc. School	2021	87.0%
CBSE – X	R.S. Excel English Academy Sr. Sc. School	2019	90.02%

TECHNICAL SKILLS

Languages: C/C++, Python , JavaScript , SQL
Frontend: HTML5, CSS , ReactJS , Redux , NextJs , Zustand
Backend: NodeJS , ExpressJS , JWT , WebSockets , Mongoose , Multer , Django, Flask
Cloud/Databases : MySQL , MongoDB , AWS , Azure
Operating System: Windows , Linux
Developer Tools: VS Code , Git, GitHub , PostMan
Soft Skills: Collaboration, Ownership, Accountability

PROJECTS

Query Hub [Repo Link] — [Demo Link]
Personal Project Dec'24

- Developed a **full-stack QA platform**, enabling users to **ask questions, provide answers, and upvote content**, with a reputation system based on upvotes, **increasing user engagement by 50%**.
- Created **custom API routes with Node.js and Appwrite SDK**, isolating Appwrite for database management and **ensuring 100% backend control**, resulting in improved flexibility and performance.
- Enhanced user experience using **Zustand for state management** and **Shadcn UI**, supporting **100+ active users** with seamless UI, **reducing load times by 30%**.
- Tech Stack: **TypeScript, Next.js, Node.js, Appwrite SDK, Zustand, Shadcn UI, Accernity UI, Vercel**

Feedback Application [Repo Link] — [Demo Link]
Personal Project Dec'24

- Built a **feedback platform adopted by 200+ users in two weeks**, streamlining feedback collection and analysis for diverse user needs..
- Built with **Next.js, integrated Gemini AI for automated replies with 85% accuracy**, enabling faster resolution of queries and **reducing manual workload by 50%**.
- Scaled **MongoDB to handle 10,000+ entries**, enhanced query speed by 25%, implemented **Resend for secure email verification**, and boosted **admin efficiency by 40%** and user satisfaction by 30%.
- Tech Stack: **Next.js, TypeScript, ShadCN UI, MongoDB, Node.js, Gemini AI API, Resend, and Vercel.**

LoadShield: Logistics Theft Detection [Repo Link] — [Demo Link]
Hackathon Project Oct'24

- Engineered** a real-time theft detection system using **MERN stack, YOLO, Python, and OpenCV**, integrating sensor data for accurate monitoring and **achieving 92% accuracy**.
- Designed and deployed a CRUD-enabled dashboard** with live sensor readings, **ROI-based human tracking, and an SOS alert system**, enhancing security response by **85% in tests**.
- Developed a streamlined interface for **full CRUD operations**, using **MongoDB for efficient data management** and **JWT for secure authentication**.
- Tech Stack: **React.js, Chart.js, Redux, Node.js, Express, Flask, MongoDB, Socket.io, YOLO, JWT**

WORK EXPERIENCE

SendPay *Raipur, India*
FullStack Developer , UI/UX Dec'24 - Jan'25

- Built the **SendPay App** with features like **email tools, payment tracking, and AI-driven invoicing**.
- Designed a scalable **Backend**, implemented **responsive front-end**, and ensured smooth deployment using **modern web frameworks**.
- Delivered a platform **that boosted customer engagement by 40%** and supported the **company's scaling efforts**.

JPMorgan Chase & Co *Raipur, India*
Software Engineering Virtual Internship Nov'24 - Dec'24

- Real-Time Stock Price Feed:** Developed live 5s updates.
- JPMorgan Frameworks Mastery:** Build 10k+ LOC app.
- Python-JS Integration:** Achieved 40% faster processing.
- Market Analytics Tools:** Enhanced insights for 200+ users.

ACHIEVEMENTS

- CodeChef **4 Star, Division-2 , Max-Rating: 1853**
- CodeForces **Pupil , Max-Rating: 1305**
- LeetCode: **Knight , Max-Rating: 1869**
- CodeChef Starters 157 Div2 **Global Rank: 47**
- Secured **First position at Codeutsava 8.0 Hackathon**, a competitive tech event at NIT Raipur.
- Secured **First position at Hack-0-Harbour Hackathon**, conducted at IIIT Naya Raipur.
- Ranked **442nd out of 50,000 teams** in the **Amazon ML Challenge**.
- Secured **College Rank 3** in the **ICPC Preliminary Round 2024**

KEY COURSES TAKEN

- Data Structures and Algorithms**
- Object-Oriented Programming (OOPs) in C++**
- Database Management Systems (SQL, NoSQL)**
- Operating Systems**
- Computer Networks**
- Low-Level System Design**
- Data Science and Machine Learning**

POSITIONS OF RESPONSIBILITY

Technical Manager
Turing Club Of Programmers, NIT Raipur July'24 - Present

- Managing the **official website of Turing Club of Programmers**, ensuring seamless functionality, timely updates, and optimized user experience to enhance the club's online presence.

Technical Manager
IEEE Student Branch, NIT Raipur Aug'23 - Present

- Managed official website development and content for IEEE Student Branch** aligning design with organizational standards and ensuring consistent performance with IEEE standards.