

UTKARSH KUMAR UPADHYAY

Codechef | Codeforces | Leetcode | GeeksForGeeks |

Department of Electrical Engineering
National Institute Of Technology Raipur

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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
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

Feedback Application [Link]

Personal Project Dec'24

- Developed a **web-based feedback tool used by 200+ users** to efficiently manage and analyze feedback.
- Built with **Next.js**, integrated **Gemini AI** for **85% accuracy** in auto-replies, and scaled **MongoDB** to handle **10,000+ feedback entries**. Used **Resend** for email verification and deployed on **Vercel** with **99.9% uptime**.
- Increased **admin response efficiency by 40%**, improved database scalability, and boosted user satisfaction by 30%.
- Tech Stack: **Next.js**, **TypeScript**, **ShadCN UI**, **MongoDB**, **Node.js**, **Gemini AI API**, **Resend**, and **Vercel**.

LoadShield: Logistics Theft Detection [Link]

Hackathon Project Oct'24

- Engineered** a real-time theft detection system using **MERN stack**, **YOLO**, **Python**, and **OpenCV** ,integrating sensors data (weight, humidity, etc.) 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 an **estimated 85%** in synthetic data tests.
- A streamlined interface for **full CRUD operations**, leveraging **MongoDB** for efficient data management and fast retrieval of sensor metrics, with **JWT** for secure authentication using refresh and access tokens.
- Tech Stack: **React.js**, **Chart.js**, **Redux Toolkit**, **Node.js**, **Express.js**, **Python Flask**, **MongoDB**, **Socket.io**, **YOLO**, **JWT**

Car Parking Management System [Link]

Vigyaan Project Oct'24

- Engineered** a full-stack **Smart Car Parking System**, implementing robust user auth, role-based access control, and efficient database management to handle data for users, owners, and drivers.
- Integrated Google Maps API and YOLO** for real-time parking lot selection, location tracking, and navigation, achieving **95% detection accuracy** and **92% overall system accuracy**.
- Implemented **OTP verification**, **stats display**, and **real-time parking updates** to enhance security and user experience.
- Tech Stack: **Node.js**, **Express**, **Flask**, **MongoDB**, **JWT**, **Google Maps API**, **YOLO(AI model)**, **Firebase**.

WORK EXPERIENCE

SendPay

FullStack Developer , UI/UX Raipur, India

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

Software Engineering Virtual Internship Raipur, India

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.