Utkarsh Shukla

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WORK EXPERIENCE

ICSSR   May 2024 - Present
Data Analyst Intern
• Analyzed a large healthcare dataset to study societal behavior during COVID-19.
• Performed data cleaning, visualization, and reporting using Python, Pandas, Matplotlib, and Excel
• Generated insights that helped understand public responses in various pandemic scenarios.
• Developed skills in big data analysis, data visualization, and utilizing analytical libraries effectively

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EDUCATION

IIIT Tiruchirappalli   Aug 2023 - Present
B Tech - Computer Science and Engineering - 8.2

PROJECTS

NexMeet ↗   Dec 2024 - Jan 2024

• Developed a full-stack video conferencing platform using React, Node.js, and WebRTC with screen sharing, in-meeting chat, and host controls supporting up to 50 participants
• Implemented secure meeting access with MongoDB persistence, password protection, waiting room flow, and Clerk authentication for participant verification
• Optimized WebRTC performance using STUN/TURN (Xirsys), perfect negotiation pattern, and bandwidth limits to maintain smooth low-latency communication
• Built real-time Socket.IO events for participant join/leave updates, chat messaging, and meeting analytics like duration and participant count
• Deployed the frontend on Vercel and backend on Render with auto-reconnect, ICE restart handling, and a responsive Material-UI interface
Tech Stack: React, Vite, Node.js, Express.js, WebRTC, Socket.IO, MongoDB, Clerk, Xirsys (STUN/TURN), Material-UI, Vercel, Render

NextCollab ↗   Aug 2025 - Oct 2025

• Built **Collab Platform**, a full-stack real-time team collaboration app with **projects, tasks, Kanban boards, and activity timelines**.
• Implemented **secure authentication** with JWT, **OAuth (Google/GitHub)**, and **forgot/reset password** flow using email verification.
• Developed **drag-and-drop Kanban workflow** with task CRUD, project sharing, and team member management.
• Enabled **real-time collaboration** using Socket.IO for live task updates and instant sync across users.
• Delivered a **modern responsive UI** with Tailwind CSS, optimized layout, and **light/dark mode** support.
• Deployed frontend on **Vercel**, backend on **Render**, and database on **Render PostgreSQL**.
Tech Stack: React (Vite), Tailwind CSS, Axios, Context API, Socket.IO, Node.js, Express.js, PostgreSQL, Sequelize, JWT, Bcrypt, Nodemailer, Vercel, Render

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TECHNICAL SKILLS

• Programming Languages: C++, Python, JavaScript, Java
• Web Development: MERN stack (MongoDB, Express.js, React, Node.js), Next.js, Tailwind CSS, Bootstrap
• Databases: MongoDB, MySQL, Firebase
• Tools & Cloud Services: Git, Google Cloud
• Data Science & Analytics: Pandas, NumPy, Matplotlib, Seaborn
• Core Skills: Data Structures & Algorithms (DSA), Competitive Programming

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CERTIFICATE

Technocrats Hackathon Finalist ↗

Oracle Cloud Infrastructure 2025 Certified Generative AI Professional ↗

Achievements

• LeetCode: Max Rating – 1882(max) | Best Rank – 808
• GFG: Max Rating – 1796 | Best Rank – 146
• CodeChef: Rating – 1636(max)
• Codeforces: Pupil 1337(max)
• Solved 1000+ coding problems across multiple platforms.