

Madhuram Kulshrestha

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Professional Summary

Computer Science undergraduate (B.Tech, VIT Bhopal) with backend and systems development experience. Built scalable full-stack applications using Node.js, Flask, Kafka, and MongoDB. Delivered real-time messaging systems for 1000+ users and deployed ML models with 92% accuracy. Completed 250+ DSA problems and ranked in the top 0.3% in TCS CodeVita. Selected among the top 30 global teams in International Innovation Challenge 2024.

Education

VIT Bhopal University, B.Tech in Computer Science and Engineering July 2022 – July 2026

- Cumulative GPA: 8.84/10 (Transcript)

Shanti Niketan Public School, Agra, Class XII (CBSE) April 2020 – March 2021

- Percentage: 91.2/100 (Transcript)

St. Mary's Convent School, Agra, Class X (ICSE) April 2018 – March 2019

- Percentage: 91.8/100 (Transcript)

Internship Experience

Technical Intern, Frihbi Enterprises Pvt. Ltd. –Remote July 2025 – Present

- Collaborated with the core Inner Circle team to brainstorm new features and AI integration for Shop.to
- Gained hands-on experience building no-code, AI-powered business applications (CRM, ERP, HR) with intuitive chat interfaces

Data Science Intern, Sabudh Foundation (STPI) – Remote January 2025 – June 2025

- Developed and deployed 3+ ML models (classification, regression, LLM-based) as APIs with 92% test accuracy
- Improved model accuracy by 15–20% via targeted feature engineering and GridSearchCV optimization

Projects

Scalable Chatting Web Application using Kafka and Socket.IO GitHub Link

- Built real-time chat system supporting 1000+ concurrent users using Kafka and Socket.IO
- Achieved 40% latency reduction via Redis caching, load balancing, and efficient pub/sub design
- Integrated Google OAuth 2.0 and JWT for secure login with session-based user tracking

Videotube – Video Streaming Dashboard GitHub Link

- Built a Node.js backend to support video uploads, streaming, and user analytics with secure access controls
- Used MongoDB for storage and real-time content rendering via client-side HTML updates
- Enabled secure uploads and real-time user engagement tracking

Technical Skills

Languages: Python, Node.js, C++ , Java, SQL

Frameworks Libraries: Node.js, Next.js, React.js, Typescript, Redis, Kafka, Socket.io

Cloud Tools: Kafka, Redis, JWT, Google OAuth 2.0, GIT, Docker

CS Fundamentals: Data Structures Algorithms, OOP, DBMS, OS, Computer Networks

Cloud Tools: AWS, Git, Google OAuth, JWT, Tableau

Achievements

- **TCS CodeVita 2024:** Ranked among the top 0.3% globally (AIR 671/200K+) in TCS CodeVita 2024, a prestigious international coding competition
- **International Innovation Challenge 2024:** Top 30 Global Teams
- **Coding Profile:** Solved 250+ DSA problems across platforms [across GFG Score: 700+, Codechef(1200+)]
- **Academics:** Perfect 10/10 GPA during Interim Semester 2023