



# Tejas Sanjay Dherange

Pune , India. | +91 8766020059 | tejasdherange0099@gmail.com | <https://tejas-portfolio.codeloom.software>

## Profiles

<https://github.com/Tejas-Dherange>

[https://leetcode.com/u/Tejas\\_Dherange](https://leetcode.com/u/Tejas_Dherange)  
(Max 1473)

<https://www.linkedin.com/in/tejas-dherange-54a6a627b>

## Education

**BRACT's Vishwakarma Institute of Information Technology ,Pune**  
3rd-year student with experience in full-stack development, Generative AI, and strong CSE fundamentals.

**August 2023 - August 2027**  
B-Tech - 8.61

## Experience

**Forbes Marshal**  
AI RAG Development

**March 2025**  
Remote

- Built a robust RAG pipeline using Gemini API and LangChain for accurate product query resolution.
- Integrated Quadrant vector store with custom LangChain embeddings for improved semantic retrieval performance.
- Developed a dynamic React-based chat interface supporting Excel uploads and real-time Q&A interaction.
- Optimized chunking and retrieval for large Excel files (~15k+ rows) to enhance answer accuracy.
- Improved LLM response relevance by 40% through refined prompt engineering and context injection.

## Projects

**Codeloom - A full-stack DSA practice platform. [ [www.codeloom.software](http://www.codeloom.software) ]**  
 Github

**March 2025**

- Developed **personalized user profiles** to track coding submissions, progress analytics, and performance metrics.
- Implemented **real-time coding contests** with live leaderboards and company-specific problem sheets for interview preparation.
- Integrated **Razorpay payment gateway** and built a **time complexity analyzer** for evaluating user-submitted code.

**SmartShetkari**  
 Website/Demo

**April 2025**

- Led a team to develop an **AI-driven farming platform**,featuring crop yield prediction, image-based recognition,and smart irrigation tips.
- Directed the creation of **data pipelines** integrating weather, soil, and market APIs for real-time decision-making.
- Oversaw implementation of **multilingual voice/text support** on a mobile-first platform using **Next.js**, **Gemini API**, and **MongoDB**.

**AI-Powered UI Component Generator with Drag-and-Drop Editor**  
 Github

**November 2024**

- Led team** in building an **AI-powered drag-and-drop UI designer** with real-time preview, responsive design, and JSX/HTML export.
- Integrated **LLM** for natural language to UI code generation using **Next.js**, **TypeScript**, **Tailwind CSS**.
- Implemented **Clerk authentication** and **MongoDB** for secure project management.

**PersonaAI [ <https://persona-ai-woad.vercel.app> ]**  
 Github

**August 2025**

- Built an AI chatbot with LangChain and streaming responses** for real-time interaction.
- Designed personalized AI personas of Hitesh Choudhary & Piyush Garg** with custom prompts and memory.

## Achievements

**Hackathon Finalist**  
Selected as one of the Top 20 Finalists in Alphabyte 2.0, a national-level hackathon organized by GDG Cloud PCCOE, Pune (2024), among hundreds of participants for innovative problem-solving and impactful project development.

**November 2024**  
Pune

**Treasurer — ACM VIIT**  
Managed society finances, budgeting, and expense tracking to ensure transparency and efficient fund allocation.

**Present 2025**

## Blogs

**The Power of Polyfills: Writing Cross-Browser JavaScript Code**  
 Polyfills

**Essential Networking Jargon You Need to Know**  
 Blog

**High-Level & Low-Level Design of the JS Engine**  
 JavaScript Under the Hood

## Skills

**Languages**  
JavaScript, TypeScript, Python, Java, C++, HTML5, CSS3, SQL

**Frontend**  
Next.js, React.js, Tailwind CSS, DaisyUI, ShadCN,Aceternity UI

**Backend**  
Node.js, Express.js, REST APIs, GraphQL (basic), Socket.IO, WebSockets

**Database**  
MongoDB, PostgreSQL ,QuadrantDB, Prisma ORM,Mongoose Firebase

**Tools**  
Git,Github,AWS,Docker,Vps Hosting,LangChain

**Others**  
AI integrations (Open AI) , Judge0,Redux, Zustand, Chart.js, Zod , Axios

## Certifications

**ChaiCode - Web Development**  
 Certificate

**August 2025**