

Jayesh Muley

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Professional Summary

Computer Science undergraduate with hands-on experience in full-stack (MERN), machine learning, AWS, and blockchain solutions. Recognized in national hackathons (BioNEST, BlockDAG, Zelestra) for impactful projects like Nutrivista and TraceDAG. Proven leadership in tech clubs and skilled in building scalable apps, integrating AI models, and delivering real-world solutions, seeking a software or AI internship to contribute to fast-paced, innovation-driven teams.

Education

Vellore Institute of Technology, Bhopal

Aug 2022 – Aug 2027

Integrated M.Tech in Artificial Intelligence CGPA: 8.89

Technical Skills

- **Languages:** Python, Java, JavaScript, C++, HTML, CSS
- **Databases & Tools:** MongoDB, PostgreSQL, Firebase, Git/GitHub, FAISS, RESTful APIs, RAG
- **Frameworks & Libraries:** React.js, Node.js, Express.js, Socket.io, LangChain, HuggingFace
- **Cloud & DevOps:** AWS, Firebase Hosting, Render, Linux

Projects

NyAI Github Live Demo

Dec 2024 – Mar 2025

LangChain, Node.js, Express.js, React.js, PostgreSQL, Python, Transformers (HuggingFace), RAG

- Architected an AI-powered legal assistant that empowers lawyers to upload case files and receive real-time, contextual responses using a Retrieval-Augmented Generation (RAG) pipeline.
- Deployed a high-performance semantic search system with FAISS, enabling search across 10,000+ dynamically uploaded legal documents.
- Boosted user engagement by delivering document-specific Q&A with over 90% accurate responses, benchmarked against test queries.

GraminMitra Github Live Demo

May 2024 – Aug 2024

MongoDB, Express.js, React.js, Node.js, NLTK, Cosine Similarity, KNN, Firebase

- Launched a rural employment platform connecting local businesses with job seekers using intelligent job matching and multilingual communication.
- Implemented scalable backend APIs to manage over 500 job listings and 300+ active rural user profiles across diverse geographies.
- Integrated a KNN + Cosine Similarity-based ML model with 93% accuracy for job recommendations.
- Enabled multilingual voice and text interaction (Hindi & English) using Dialogflow to enhance user accessibility.

Nutrivista Github Live Demo

Oct 2023 – Jan 2024

MongoDB, Express.js, React.js, Node.js, Tailwind CSS, Stripe API, TensorFlow

- Built a health-focused meal planning and ordering platform for urban users.
- Streamlined backend operations to securely handle 100+ customer orders and data for 50+ active users via a modular Node.js and MongoDB setup.
- Collected and analyzed 150+ user reviews to enhance diet recommendations and improve overall UX/UI responsiveness.

Achievements

- Completed 250 Days of DSA Challenge.
- Solved 500+ DSA problems on GeeksforGeeks.
- Finalist, BIONEST CFTRI Food Techathon – National food technology competition, Mysore, India.
- Top 0.3%, Zelestra x AWS ML Ascend Challenge – Ranked 23 out of 7,400 teams in machine learning hackathon.
- Top 1% Performer, BlockDAG Hackathon 2025; selected from 6,000+ global submissions for developing TraceDAG, a blockchain based traceability platform.

Certifications & Extracurricular

- President, MERN Stack Club Jan 2024 – Dec 2024
- Technical Lead, Android Club Jan 2023 – Dec 2023
- Applied Machine Learning - University of Michigan Dec 2024
- Google Advanced Data Analytics - Coursera Dec 2023
- Published research in *Neural Computing and Applications* – “A Comparative Study of Classical Machine Learning and Deep Learning Techniques in Identifying Deepfakes” July 2025
- Python Data Structures - University of Michigan May 2023