

# AYUSH KASARE

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## PROFILE SUMMARY

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Computer Engineering graduate focused on building production-ready AI systems. I leverage industry-standard tooling to ship 3x faster without cutting corners. Comfortable across the full stack: React, FastAPI, Node.js, and LLM APIs (Anthropic, Gemini). Certified in MCP and Oracle AI Vector Search.

## EXPERIENCE

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### Data Science Trainer Intern

Jan 2026 – Apr 2026

*iTech Computer Education*

*Mumbai, Maharashtra*

- Conducted lectures on Python, data analysis, and visualization for batches of students, covering tools like Pandas, NumPy, and Matplotlib.
- Prepared hands-on exercises around real datasets to help students understand data preprocessing and basic ML concepts.

### Freelance AI & Digital Consultant

Apr 2024 – May 2025

*Self-employed*

*Remote*

- Advised small local businesses on AI tools, social media strategy, and basic digital setup — helped a handful of clients get their online presence running.
- Identified each client's biggest operational pain point and recommended affordable tools that fit their workflow without overcomplicating things.

### Event Host — Department of Computer Engineering

Sep 2023 – May 2024

*CSI Viva Tech, Viva Institute of Technology*

*Virar, Maharashtra*

- Anchored 20+ tech and cultural events over 9 months, handling stage hosting and live audience coordination for the CS department.

## PROJECTS

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### MomConnect — AI Maternal Health Platform | *React, MongoDB, Gemini 2.0, Twilio, Socket.io* Feb 2025

- Built a full-stack app with a 4-agent AI system (emergency, hospital finder, mental health, home remedy) — each agent handles one domain, routed by an orchestrator using Gemini + keyword fallback for intent classification.
- Automated emergency response: on crisis detection, the system places a Twilio voice call and sends an SMS with the user's GPS coordinates to their emergency contact.
- Added persistent memory (short-term session context + long-term MongoDB model) so the AI remembers user preferences and health details across conversations.

### QuickVault — Desktop Bookmark & Notes Overlay | *Electron, Node.js, SQLite* Apr 2025

- Shipped a portable desktop tool (v2.1.0) — global hotkey overlay for saving links and notes, with full-text search, tag filtering, and AES-256-GCM encryption for private entries.
- Entire data lives locally in SQLite; no accounts, no cloud, auto-backup on every open. Wrote the full release docs, changelog, and user guide as a solo project.

### SecureVault — Password Generator & Vault | *Python, Flask, SQLite, CSS* Feb 2025

- Flask web app with user auth, a custom password generation engine, and an encrypted vault — split across dedicated modules (auth, database, engine, vault) for clean separation of concerns.
- Implemented bcrypt-based password hashing for stored credentials and session-based auth with CSRF protection, ensuring zero plaintext secrets at rest.

## SKILLS

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**AI & LLM:** Prompt Engineering (few-shot, chain-of-thought, structured outputs), Multi-Agent Orchestration, RAG Pipelines, Vector Databases, Model Context Protocol (MCP), LLM APIs (Anthropic · Gemini), Pydantic, Hugging Face.  
**Frontend:** React, WebSocket / Real-time Streaming UI, State Management (Zustand / Redux).  
**Backend:** Python, FastAPI, Node.js, Express, Flask, Async Processing, REST API Design, JWT Auth.  
**Data:** Pandas, NumPy, SQL (Postgres), MongoDB, SQLite.  
**DevTools:** Git, Docker, Google Cloud Platform, VS Code.

## LEADERSHIP / EXTRACURRICULAR

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- Computer Society of India (CSI) — Organizing Head** Apr 2023 – Apr 2025  
*Led 15-member committee* Viva Institute of Technology  
– Organized and ran multiple tech events and competitions; grew participation by around 40% over two years.
- Smart India Campus Hackathon** Sep 2024  
*2nd Place — 20+ Teams* Viva Institute of Technology  
– Led a 4-member team to build and demo a working prototype in one day, placing 2nd out of 20+ teams.
- College Chess Championship** 2023, 2024, 2025  
*3× Champion* Viva Institute of Technology  
– Won three consecutive college chess championships — reflects the same habits that carry into engineering: patience, forward planning, and thinking a few moves ahead before touching the board.

## EDUCATION

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- University of Mumbai** Mumbai, Maharashtra, India  
*Bachelor of Engineering — Computer Engineering | CGPA: 7.23* Nov 2022 – Apr 2026

## CERTIFICATIONS

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- Introduction to Model Context Protocol** Mar 2026  
*Anthropic*
- Oracle AI Vector Search Certified Professional** Oct 2025  
*Oracle*
- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate** Oct 2025  
*Oracle*
- SQL** Oct 2025  
*Be10x*
- Deloitte Australia — Data Analytics Job Simulation** Jun 2025  
*Forage , Deloitte*
- Career Essentials in GitHub Professional Certificate** Apr 2025  
*GitHub*
- Certificate of Completion — LinkedIn Workshop** Jan 2025  
*GrowthSchool*
- Become a Data Analyst** Jul 2024  
*LinkedIn Learning*
- SQL: Data Reporting and Analysis** Jul 2024  
*LinkedIn Learning*
- Learning Data Visualization** Jul 2024  
*LinkedIn Learning*
- Career Essentials in Data Analysis by Microsoft and LinkedIn** Jul 2024  
*Microsoft*
- Career Essentials in Software Development by Microsoft and LinkedIn** Jun 2024  
*Microsoft*
- Certificate of Workshop on Product Management by Nextleap** Dec 2023  
*Cognizance, IIT Roorkee*