Mahesh Rakte

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Summary

AI engineer and product builder (B.Tech Computer Engineering, graduating December 2028) who ships production AI and full-stack products end to end, from Gemini-powered features and LLM inference infrastructure to secure, offline-first web apps. Hackathon winner, open-source contributor to Kestra, and co-founder of a 200+ member tech community who has led workshops for 50+ students.

Technical Skills

AI / ML: Generative AI, LLMs (Gemini API), AI Agents, RAG, Prompt Engineering, Computer Vision, Machine Learning, TensorFlow

Languages: Python, TypeScript, JavaScript, Go, SQL

Full-Stack & APIs: React.js, Next.js, Node.js, Express.js, Flask, FastAPI, REST APIs, gRPC, Serverless/Edge Functions, PWA Development

Databases & Security: PostgreSQL, MongoDB, MySQL, Supabase, Redis, Row-Level Security (RLS), Role-Based Access Control (RBAC)

Cloud & Tools: AWS, Oracle Cloud Infrastructure (OCI), Docker, Git, GitHub, CI/CD-based deployment, Vercel

Data: Pandas, NumPy, Exploratory Data Analysis, Tableau

Projects

Farmline – AI Agricultural Ecosystem **2025**

React 19, TypeScript, Supabase (PostgreSQL), Gemini AI, PWA | farmline.works

- Built a full-stack platform for 5 stakeholder types with 9 Gemini-powered features, including vision-based plant disease detection that auto-escalates to veterinarians and multilingual search in English, Hindi and Hinglish
- Designed a 6-role RBAC system on PostgreSQL Row-Level Security with 12+ serverless Edge Functions, real-time GPS delivery tracking and an offline-first PWA for low-connectivity users
- Winner, GDG Build and Grow Hackathon 2.0

Distributed AI Node Agent & Cloud Inference Cluster **2026**

Go, Python (FastAPI), gRPC, llama.cpp RPC, Docker | nodeagent-five.vercel.app

- Built a decentralized platform that pools consumer GPU VRAM across LAN nodes to run 70B+ parameter models with tensor-parallel inference
- Designed a Python/FastAPI controller and Go node agents connected over gRPC, with an OpenAI-compatible REST API and SSE token streaming
- Implemented heartbeat-based node health monitoring, secure node enrollment and automatic failure recovery

AI Memory Vault **2025**

React, TypeScript, Supabase (PostgreSQL), Gemini API, Chrome Extension | contextbridge.vercel.app

- Built a Chrome Extension and web dashboard that captures and re-injects context across ChatGPT, Claude, Gemini and other AI tools, supporting 6+ platforms
- Integrated the Gemini API to extract summaries, decisions, key points and action items from conversations
- Engineered an offline-first sync architecture with conflict resolution and a Row-Level Security database schema

TerritoryFit – Gamified Fitness Territory Platform **2026**

React 18, TypeScript, Leaflet, Supabase (PostgreSQL), Capacitor

- Built real-time territory-capture logic, leaderboards and heatmaps on a PostgreSQL and Supabase Realtime backend
- Deployed as a cross-platform mobile app with offline functionality and background location tracking

Experience

Data Science Intern **Nov. 2024 – Dec. 2024**

Unified Mentor | Remote

- Performed exploratory data analysis on datasets with 100K+ records using Python (Pandas) and built preprocessing pipelines for machine learning

- Built interactive dashboards (Plotly, Tableau) that improved data interpretation efficiency by 40%
- Presented findings to cross-functional teams as actionable recommendations

Open Source, Achievements & Leadership

- Open Source Contributor, Kestra (Hacktober 2026): contributed to Kestra, an open-source workflow orchestration platform, through GitHub pull requests and maintainer review
- GDG Build and Grow Hackathon 2.0 – Winner: built and shipped a full-stack solution as part of a multi-person team
- Technical Workshop Leader: organized a hackathon and led web development and data science workshops for 50+ students
- Community Builder: co-founded OG Tech Minds, growing it to 200+ active members; contributor to other open-source projects on GitHub

Certifications

- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate — Oracle (Issued Oct 2025, Expires Oct 2027)
- Redis Associate Developer and Redis Associate Cloud Operator — Redis (Issued Aug 2026, Expires Aug 2028)
- Data Streaming Engineer Foundations — Confluent, an IBM Company (Issued Nov 2025, Expires Nov 2027)
- Code Generation and Optimization Using IBM Granite — IBM (Issued Aug 2026)
- PromptWars Virtual Challenge 4 — Top 400 Achievement, Google for Developers (Issued Aug 2026)

Education

Bachelor of Technology in Computer Engineering **Sept. 2024 – Dec. 2028**

TSSM's Bhivarabai Sawant College of Engineering & Research | Pune, India | GPA: 8.55

- Relevant Coursework: Data Structures, Algorithms, Database Management, Machine Learning