Vinayak Khavare
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LinkedIn: vinayak-khavare-542821257 | **GitHub:** github.com/Vinayak-Khavare
Portfolio: vinayak-khavare/Portfolio/ | **Leetcode** | **HackerRank**

"Aspiring AI Engineer passionate about designing agentic AI systems, deploying RAG pipelines, and delivering scalable AI solutions that solve real-world business challenges."

Education

AISSMS College of Engineering — Pune, Maharashtra
- Final Year B.E. Computer Engineering, CGPA: 8.04 — 2026

Kendriya Vidyalaya No.2 — Vasco, Goa
- 12th Standard – CBSE, Score: 85.6% — 2021
- 10th Standard – CBSE, Score: 85.4% — 2019

Technical Skills

Proficient in: Python, C/C++, Machine Learning, Deep Learning, Natural Language Processing, Artificial Intelligence, HTML, CSS, JavaScript, OOP, SQL, MongoDB, DSA
Familiar with: Flask, FastAPI, Ollama, LangChain, Semantic Kernel, Chainlit, Streamlit, AZURE, AWS, Operating Systems, Computer Networks, Scikit-learn, Matplotlib, Tensorflow, Numpy, Pandas, Gensim, Spacy, NLTK, Fasttext, Openpyxl, Pdf-plumber, Neo4j.

Professional Experience

Freelance Project – Automated Trial Balance Processing with LLM Integration — June, 2025 – Current
- Collaborated with a final year CA student and industry mentors to build an AI-powered financial document parser that automates trial balance extraction, semantic heading classification using LLMs, and structured Excel report generation, reducing manual effort and improving accuracy for financial professionals.
- Processed 1,000+ financial entries from complex trial balance PDFs with 95%+ accuracy, cutting manual analysis time by over 70% and enabling faster report generation for real-world accounting use cases.

Technical Projects

LAWGIC AI – *Indian Legal Law Agent*
Microsoft Hackathon | Team of 4 students
- Built a multilingual, AI-powered legal assistant for Indian law using Azure AI services; implemented logical reasoning flow and Google Search API integration to handle legal queries with citations and voice input/output.
- Leveraged Semantic Kernel for memory and skill orchestration, Chainlit for the frontend interface, and integrated Azure AI Speech, Blob Storage, Cognitive Search, and Indexing for document retrieval and voice-based interaction.
- Enabled real-time legal query resolution across multiple Indian languages, significantly improving accessibility for diverse users; contributed to system integration and optimized prompt engineering for context-aware responses.
- Successfully deployed a working prototype during the Microsoft Hackathon, showcasing practical application of agentic AI in the legal domain and reducing legal information lookup time by 60%+.

Finny – *The Finance Buddy*
Perplexity Hackathon | Team of 4 students
- Built a Discord-based finance bot that gamifies personal finance for Gen Z users, featuring daily spend-or-save dilemmas, savings goal tracking, and a FinCoins rewards system.
- Integrated Perplexity LLM API for witty, real-time financial guidance and implemented persistent user tracking with SQLite, supporting multi-user engagement across Discord servers.
- Led development of core logic contributing to 1000+ successful interactions and delivering an accessible, AI-powered financial experience.

AptAI – *Intelligent Quiz Generator from PDFs*
Solo Project | LLM + Vector DB + Dynamic Frontend
- Developed a full-stack AI app that parses large PDF documents, stores vector embeddings in ChromaDB, and dynamically generates 60-question quizzes using Ollama Mistral 7B, tailored to user queries.
- Engineered a retrieval-augmented generation (RAG) pipeline that ensures contextually relevant quiz creation by grounding LLM prompts on semantically matched content from stored vectors.
- Built a fully functional, interactive frontend using vanilla HTML, CSS, and JavaScript, enabling users to start tests, receive scores, and view explanations—all within a clean, dynamic UI.

Achievements & Awards

- Solved 350+ problems and Earned 50 Days Badge 2025, 50 Days Badge - 2024, and other several badges on **Leetcode.**
- **Engineering Today –** Secured 6th position in a DSA coding competition in first year (AISSMS COE, 2023)
- **Participated in** Microsoft AI agent hackathon 2025, DSA Craft (Innovation 2024 CCoEW), INC (PICT 2024), Engineering Today (AISSMS COE 2023)

Leadership and Extracurriculars

- **Google Developers Group, AISSMS COE, Pune -** Head of the AI/ML team.
- **Ciphers - Technical Club AISSMS COE, Pune** - Member of the Programming Department.
- **Selected Striker, U-16 Football Regionals** – Represented Kendriya Vidyalaya No.1 Kalpakkam cluster; reached quarter-finals at IIT Madras (KV Nationals), 9th grade.
- **Track & Field Champion** – Secured 1st place in 100m, 200m, and relay races during 7th–8th grade at school-level athletic meets.
- **Interests:** Cooking | Fitness & Calisthenics