

# Vinayak Khavare

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**Portfolio:** [vinayak-khavare/Portfolio/](https://vinayak-khavare.github.io/Portfolio/) | **Leetcode** | **HackerRank** | **X**

"AI engineer in the making, focused on building practical, agentic AI systems, streamlined RAG pipelines, and scalable solutions that actually solve real-world problems."

## Education

### AISSMS College of Engineering

Pune, Maharashtra

- Final Year B.E. Computer Engineering, CGPA: 8.4

2026

### Kendriya Vidyalaya No.2

Vasco, Goa

- 12<sup>th</sup> Standard – CBSE, Score: 85.17%
- 10<sup>th</sup> Standard – CBSE, Score: 85.6%

2021

2019

## Technical Skills

**Proficient in:** Python, C/C++, Machine Learning, Deep Learning, Natural Language Processing, Artificial Intelligence, HTML, CSS, JavaScript, OOP, SQL, MongoDB, DSA, Data Migration, Client & Stakeholder Communication, BI Reporting & Dashboard Analysis, ETL / ELT Pipelines, Apache Airflow, Query Optimization.

**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, Agile/Sprint workflows, Data Modeling, Cloud Cost Optimization, Snowflake, Teradata.

## Professional Experience

### ONIX – Internship (Delivery)

September, 2025 – Current

- ETL Intern**  
Contributed to TD → BigQuery migration by building and debugging Airflow DAGs, resolving pipeline errors, and collaborating with project partners and clients. Gained hands-on understanding of tables, views, partitions, and data warehousing concepts.
- BI Intern**  
Transitioned to BI team after successful project completion; supporting a German client on Snowflake → BigQuery migration. Conduct performance benchmarking, report analysis, dashboard development, and code optimization to improve query and reporting efficiency.

### Freelance Project – Automated Trial Balance Processing with LLM Integration

June, 2025 – August, 2025

- Collaborated with CAs and industry mentors to build a startup project which is 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

[Github](#)

#### 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 Places API integration to recommend legal advisors by understanding user query and need.
- 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

[Github](#)

#### 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 100+ successful interactions and delivering an accessible, AI-powered financial experience.

### AptAI – Intelligent Quiz Generator from PDFs

[Github](#)

#### Solo Project | LLM + Vector DB

- Developed a full-stack AI app that parses large PDF documents, stores vector embeddings in ChromaDB, and dynamically generates 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 HTML, CSS, and JavaScript, enabling users to start tests, receive scores, and view explanations, all within a clean UI.

## Achievements & Awards

[Certificates](#)

- 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