

# Vinayak Mishra

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[GitHub \(Vinayak2005917\)](#) | [LinkedIn \(vinayakmishra-cse\)](#) | [Codewars : 75+ problems solved](#)

**AI & ML:** PyTorch, TensorFlow, Scikit-learn, Transformers, Hugging Face, Pandas, NumPy

**Agentic AI & RAG:** LangChain, LangGraph, Qdrant, OpenAI API, Ollama, Embeddings, Vector Databases

**Web & Visualization:** Django, Flask, FastAPI, Streamlit, WebSockets, REST APIs, Supabase

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**AI Research Intern (The Bean Code) – Sept 2025 to Jan 2026:** Conducted **deepfake detection research**, advancing model robustness **against AI-generated media** to enhance digital trust and security. Covering the **full research cycle** - literature review, experimentation, and paper publication.

**Development Intern (Shopto) – July 2025 to Oct 2025:** Contributed dozens of PRs and **engineered an Agentic AI system from scratch**, enabling autonomous data retrieval, analysis, and document generation for real-world data.

**Python Trainee Intern (BroskiesHub) – Jul 2025 – Aug 2025:** Built deployable Python projects; ranked top 3 performers.

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**CODORA (2nd Prize, Digitize 2025, AIT Chikmagalur)** [GitHub Repo](#) | [Live Demo](#)

**Led a 4-member team** to build and deploy a **Real-time collaborative workspace** integrating AI-assisted writing and coding. Designed a scalable, asynchronous architecture with **WebSocket** support for **multi-user collaboration**. Features included live document editing, version history, PDF export, and an integrated Copilot-style prompt assistant. **Tech Stack:** Django REST, WebSockets, OpenRouter API, Vercel, Render, SQLite.

**Andromeda: Generative UI Based Research Agent** [GitHub Repo](#) | [Live Demo](#)

**Built and deployed** an AI **Agent** that **generates interactive UIs** for learning, rather than static text responses, with capabilities including **web search**, **asynchronous** multi-page content extraction, and **image retrieval**. **Tech Stack:** LangChain, LangGraph, FastAPI, WebSockets, SERP API, Vercel, Render

**Ask The Right Questions: Interactive RAG Detective Game** [GitHub Repo](#)

**Built** an interactive detective game that teaches RAG; players reconstruct a mystery by querying an AI with fragmented memories. Implemented Top-K semantic memory retrieval from a vector database and a UMAP-based 2D visualization of the memory space. **Tech Stack:** LangChain, Qdrant, FastAPI, PixiJS

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AMC Engineering College — *B.E Computer Science Engineering*

Aug 2023 – Aug 2027, Bengaluru