

# YASH CHINCHOLE

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## EDUCATION

### Bachelor of Technology in Computer Engineering

Pimpri Chinchwad College of Engineering, CGPA: 8.3

Pune, India

December 2021 – May 2025

## EXPERIENCE

### Data Science Intern

Wolters Kluwer

Pune, India

July 2024 - June 2025

- Built a GenAI-powered **AI agent** system in Python using **LangChain**, **LangGraph**, and **Azure OpenAI** to analyze over **500+** sales call recordings, uncovering **churn signals**, identifying **customer sentiment trends**, and enabling data-driven **product decisions** across the product and sales teams.
- Implemented a **RAG-based agent pipeline** leveraging **ChromaDB** as a vector database to retrieve context from internal product documents, using **Pydantic** to define and validate the schema of retrieved data chunks, and dynamically injecting them into LLM prompts to improve **factual accuracy** and **contextual alignment**.
- Achieved **2nd Runner-Up** globally in **Code Games Hackathon 2025**, developing an **AI-powered** analytics tool to extract performance insights and optimize strategy for a leading financial product.
- Automated the identification of recent enforcement actions using **Python** and **Web Scraping**, improving accuracy by **96.8%** and reducing turnaround time from **45 days** to **1 day**.
- **Tech Stack:** Python, RAG, LangChain, LangGraph, Pydantic, SQL, Pandas, Regex, Web Scraping

## PROJECTS

**AgentHub:** *Python, LangChain, LangGraph, RAG, FastAPI, Streamlit, ChromaDB, SQLite, OpenAI, LlamaGuard*

- Developed a full-stack, **multi-agent platform** with tool-augmented reasoning and workflows across **6+** agents for document Q&A, SQL queries, live web search, factual lookups, and scientific research.
- Designed **RAG pipelines** using **ChromaDB** for unstructured document retrieval, and integrated **SQL agent** to convert natural language into queries over the Chinook database. Created a **Research Assistant** combining DuckDuckGo, Wikipedia, ArXiv, and calculator tools for multi-source synthesis and contextual reasoning.
- Architected agent orchestration using **LangGraph** and **LangChain** to enable structured, asynchronous workflows with dynamic routing—supporting scalable reasoning, agent collaboration, and task management.
- Built a **FastAPI backend** and Streamlit frontend for real-time chat streaming, agent control, and **feedback**; embedded **LangSmith** for tracing and ensured safety via GROQ-LlamaGuard-4-12B for **content moderation**.

**RAG Medical Assistant:** *Python, RAG, LangChain, FAISS, Flask, Jenkins, Docker, Groq*

- Engineered an end-to-end **RAG-based medical chatbot** using **LangChain** and **FAISS** to answer user queries from medical PDF literature with high contextual accuracy.
- Orchestrated a modular pipeline for **document chunking**, **embedding generation**, and **vector storage**, leveraged with the **llama-3.3-70b-versatile** model to produce reliable responses.
- Implemented a robust CI/CD workflow using **Docker**, **Jenkins**, and GitHub Actions for automated deployment.

## SKILLS

- **AI/GenAI Tools:** RAG, LangChain, LangGraph, ChromaDB, FAISS, Pydantic, MCP, Agentic AI, OpenAI
- **Data Science & Machine Learning:** Scikit-Learn, Pandas, NumPy, Keras, OpenCV, Matplotlib, Seaborn
- **Programming Languages:** Python, SQL, C, C++, Java, HTML, CSS, JavaScript
- **Web & API Frameworks:** FastAPI, Flask, Streamlit, Gradio, Node.js, Bootstrap
- **Tools & Utilities:** Git, Github, Docker, Cursor, Jupyter Notebook, VS Code

## ACHIEVEMENTS

- **1st Prize** in Web App Development - **Hackathon** Challenge at TECHFEST 2022, Pune
- **1st Rank** amongst 100+ teams in Inter-College Level **Hackathon** at ARTIMAS 2023, Pune
- **2nd Runner Up** Position amongst 50+ teams in Bluebit Inter-College Level **Hackathon** at PRAXIS 2023
- **Research Paper:** “Facial Attendance System with Anti-Spoofing Measures using Depth FASNet”
- ICPC Amritapuri - Preliminary 2023: **All India Rank 850**, Preliminary 2024: **All India Rank 997**
- **Coding Profiles:** [GeeksforGeeks](#): 450+ problems (Score: 1500+, Rank: 65), [HackerRank](#): **5 Star** rating