

# Pranay Harne

pranayharne617@gmail.com | 8261086182 | Kondhwa, Pune

linkedin | github



## ABOUT ME

Results-driven AI and technology enthusiast specializing in software engineering, machine learning, and Retrieval-Augmented Generation (RAG) systems. Experienced in building scalable, production-ready AI applications and integrating Large Language Models (OpenAI, Gemini, Ollama) with vector databases (FAISS) using LangChain. Adept in end-to-end development, cloud deployment, and process automation. Currently contributing to an industry project at UST Global on Agentic AI and automation.

## EDUCATION

<b>Vishwakarma Institute of Information Technology, Pune</b> <i>B.Tech in Computer Science (AI)</i>	2023 – 2027 CGPA: 8.9/10
<b>Shri Dawale College, Akola</b> <i>12<sup>th</sup> Science (PCM)</i>	2021 – 2023 83.66%
<b>Bharat Vidyalyaya, Akola</b> <i>10<sup>th</sup> SSC</i>	2020 – 2021 98%

## PROJECTS

<b>Agentic AI-based Documentation System for SoC</b>   UST Global, LangChain, Streamlit, GPT-4 – Developing an industry PoC for automated documentation generation for SoC registers and reference manuals. – Implementing a multi-agent workflow (Planner → Writer → Validator → Retriever) with vector-based memory for context retrieval. – Using LLMs (GPT-4, Gemini) for XML/DITA drafting from CRR/spec files and incorporating inclusive language checks. – Building a Streamlit UI to demonstrate the complete end-to-end documentation flow.	Ongoing
<b>RAG Chatbot for Document Q&amp;A</b>   LangChain, FAISS, Streamlit, OpenAI, Gemini, Ollama – Designed and deployed a high-accuracy chatbot leveraging RAG to provide contextually relevant answers from user-uploaded documents. – Implemented FAISS for fast similarity search, integrated multiple LLMs for performance benchmarking, and deployed via Streamlit.	2025
<b>ShopEasy - Price Comparison SaaS</b>   React, Node.js, MongoDB – Developed a SaaS platform enabling real-time product price comparison between local and online marketplaces, increasing cost transparency. – Integrated Razorpay, TailwindCSS, Google Maps API, WebSocket, and custom web scraping pipelines.	Apr 2025
<b>Neuro-Sound: AI Music Generator</b>   PyTorch, Streamlit – Built an AI system generating emotion-driven, context-aware music for productivity, sleep, and relaxation.	Apr 2025

## TECHNICAL SKILLS

- **Programming Languages:** C++, Python, JavaScript, HTML/CSS, Java (Basics), SQL
- **Frameworks**  
**Libraries:** Node.js, Express.js, React.js, Streamlit, LangChain
- **Databases:** MongoDB, MySQL, FAISS (Vector Database)
- **Machine Learning / Deep Learning:** PyTorch, TensorFlow, Hugging Face Transformers, embeddings, model fine-tuning
- **LLM Stack:** OpenAI (GPT), Google Gemini, Ollama, Hugging Face models, Retrieval-Augmented Generation (RAG)
- **Cloud**  
**Tools:** Git, Docker, Power BI, Tableau, REST APIs, Google Cloud Platform, Jupyter Notebook

## CERTIFICATIONS

- CCNA Module 1 – Cisco Certified
- Google Cloud Study Jam – VMs, Jupyter Labs
- AI Bootcamp – CDAC Pune
- Power BI – Udemy

## HACKATHONS & RESEARCH

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- Finalist – EY Techathon 5.0, Sinhgad Hackathon
- SIH Internal Rank – 17 of 300+ teams
- **Research:** “Electricity Generation from Solid Waste” – IJRDT
- **Book Chapters:** Springer, Scopus, CRC (submitted/accepted)
- Google Solution Challenge 2024, 2025 participant

## SOFT SKILLS

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Problem Solving, Team Collaboration, Time Management, Curiosity, Leadership, Communication, Adaptability