

Parmeet Singh Granthi

granthi.parmeet@gmail.com | +91 7420004161 | parmeetsingh.com | [GitHub](#) | [LinkedIn](#)

Professional Summary

Agentic AI Engineer specializing in **multi-agent systems**, **RAG pipelines**, and **LLM/NLP applications**. Experienced in designing and deploying intelligent workflows using **LangChain**, **LangGraph**, **CrewAI**, and **LangSmith**, with strong expertise in **Python**, **PyTorch**, **Generative AI**, **Prompt Engineering**, and **fine-tuning LLMs**. Skilled in building scalable AI solutions with **vector databases (FAISS, Pinecone)** and deploying them through modern engineering stacks including **FastAPI**, **Docker**, **PostgreSQL**, and **cloud platforms (AWS/GCP)**. Passionate about translating AI research into **real-world applications**, with a focus on **AI assistants**, **retrieval systems**, and **automation tools** that drive **efficiency and scalability**.

Core Skills

- **Agentic AI & RAG:** RAG, LangChain, LangGraph, CrewAI, LangSmith (Evaluation & Monitoring)
 - **Vector Databases & Retrieval:** FAISS, Pinecone, Weaviate, Document Loaders, Text Splitting, Retrievers
 - **AI & ML:** Python, PyTorch, Generative AI, NLP, LLMs, Prompt Engineering, Fine-Tuning, Chatbots
 - **Build & Deploy:** FastAPI, Docker, Streamlit, CI/CD, AWS/GCP, Postgres, Pydantic, Integrations, Security
 - **Data, Tools & Methods:** NumPy, Pandas, Agile, SDLC, Git, Jira
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Experience

Kiran Engineering Works – AI & Software Engineer

Sep 2017 – Present · Chhatrapati Sambhajinagar, India (formerly Aurangabad)

- Built **predictive models** with **IoT-enabled CNC machines**, reducing downtime by **30%** for **maintenance**
- Automated **maintenance scheduling and log reporting**, improving uptime by **35%** for **plant engineers**.
- Built **inspection dashboards** giving **supervisors** real-time machine health and quality visibility.
- Deployed **AI assistants** with **LangChain**, **FAISS**, **OpenAI**, cutting lookup time by **70%** for **operations**.
- Designed **multi-agent workflows** with **LangSmith**, cutting compliance workload by **50+ hrs/month**.
- Automated **finance (OCR invoicing, reminders)** and **HR (onboarding, SOP bots)**, boosting **efficiency**.
- Delivered **CRM-integrated sales pipelines**, accelerating client response times by **60%**.
- Deployed **cloud-native apps and IoT dashboards** with **Python**, **FastAPI**, **Docker**, **AWS/GCP**.

Independent Projects / Portfolio – Agentic AI & RAG Engineer

Live at parmeetsingh.com

- Designed and deployed self-learning **AI portfolio projects** showcasing applied expertise.
- Built **multi-agent workflows** with LangChain, LangGraph, CrewAI, and AutoGen.
- Designed **production-ready AI apps** using FastAPI, Streamlit, Docker and Kubernetes.
- Applied **NLP techniques** and **LLM-powered reasoning** across portfolio projects.
- Featured Projects: [YouTube RAG](#) · [NetZero Advisor](#) · [Research Agent](#) · [Legal Document Analyzer](#)

LTI – Larsen & Toubro Infotech Ltd. – Software Engineer

Apr 2015 – Jul 2017 · Pune, India

- **Assisted** in development and maintenance of **enterprise applications**.
 - Worked with **Python** for scripting tasks and building/supporting **REST APIs**.
 - Contributed to **testing, debugging, and deployment** processes.
 - Gained strong exposure to **Agile workflows** and **SDLC practices**.
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Education

- **B.E. Computer Science Engineering** – PESCOE, Aurangabad (First Class with Distinction, 2010–2014)