

Jethva Parthiv

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SUMMARY

Agentic AI Engineer and Python Developer pursuing a Master's degree, with hands-on experience designing and building scalable agentic AI systems, multi-agent workflows, retrieval-augmented generation (RAG) pipelines, and AI-powered automation tools. Experienced in developing agentic applications and scalable backend services using Python, FastAPI, LangGraph, LangChain, LangSmith, vector databases, and leading LLM APIs. I prototype fast with AI-assisted tools, iterate based on real usage, and focus on tools that automate workflows and save measurable time.

EDUCATION

Master of Computer Applications (MCA)

Gujarat Vidyapith

2025 – 2027 (Expected)

Ahmedabad, Gujarat

Bachelor of Computer Applications (BCA)

Smt. B.K. Mehta IT Centre BCA College Palanpur

2022 – 2025

Palanpur, Gujarat

TECHNICAL SKILLS

Languages: Python (Primary), Java, C, C++, HTML, CSS, JavaScript, SQL, PHP

AI & LLMs: LLM APIs Integration, LangGraph, LangChain, RAG Pipelines, Prompt Engineering, Observability, LLM Evals, Agentic Workflows, MCP

Frameworks & Tools: FastAPI, Flask, Streamlit, React (basic), REST APIs, Django, Pydantic

Libraries: Pandas, NumPy, SpaCy, NLTK, Scikit-Learn, HuggingFace Transformers

Databases: PostgreSQL, MySQL, Qdrant, FAISS, ChromaDB, Redis

Developer Tools: Git, GitHub, LangSmith, VS Code, Postman, Docker, Google Colab, Antigravity, n8n

PROJECTS

OpsPilot — Autonomous RevOps AI Agent Platform | [Demo](#)

- **Tech Stack:** Python, FastAPI, LangGraph, LangChain, Google Gemini, React (Vite + Tailwind CSS), ChromaDB, SQLAlchemy, LangSmith, Slack SDK, Notion API, Salesforce API, SSE.
- Architected an autonomous ReAct agent using LangGraph with Google Gemini function calling, enabling dynamic tool selection across 4 integrated tools — Notion RAG retrieval (ChromaDB), Salesforce CRM lookup, CRM task creation, and entity extraction.
- Built an event-driven platform integrating Slack Socket Mode (message listener + 3 slash commands + App Home dashboard), FastAPI backend, and a React analytics dashboard with real-time Server-Sent Events (SSE) for live execution monitoring.
- Implemented a Human-in-the-Loop (HITL) approval workflow where operators review, edit, and approve AI-drafted responses before Slack publication, with a continuous feedback loop tracking user reactions to measure agent quality over time.
- Engineered end-to-end observability with LangSmith trace integration, per-run token/cost/latency tracking, and an ROI analytics dashboard featuring time-series trends, confidence gauges, tool usage radar charts, and approval funnel visualizations.
- Built a 3-tier evaluation suite (triage classification: 94% accuracy, RAG retrieval: 90% top-3 hit rate, end-to-end reply quality: 4.2/5.0 LLM-as-judge) to validate agent performance across the full pipeline.
- Currently improving the platform with Docker Compose deployment, multi-turn conversation memory, SLA-based priority scoring, and semantic caching to improve scalability, reliability, and cost efficiency.

RAGVerse AI — End-to-End RAG Framework

- **Tech Stack:** Python, LangChain, LangGraph, Google Gemini, ChromaDB, PostgreSQL, RAGAS, LangSmith.
- Designed and implemented a modular Retrieval-Augmented Generation (RAG) system using LangGraph and LangChain, enabling multi-turn conversational interactions with persistent memory.
- Built a ChromaDB-based retrieval pipeline with hybrid retrieval, reranking, and configurable document chunking, while integrating PostgreSQL checkpointing for persistent conversation history and resumable sessions.
- Integrated Google Gemini for response generation and developed a RAGAS-based evaluation pipeline to measure answer faithfulness, answer relevancy, context precision, and retrieval quality.
- Structured the architecture with state-based workflows, LangSmith observability, and an extensible design supporting future multi-agent workflows.

ResearchFlow — Autonomous Deep Research Agent | [Live App](#)

- **Tech Stack:** Python, LangGraph, Gemini LLM, Tavily Web Search API, Pydantic v2, Streamlit, LangSmith.
- Designed and engineered ResearchFlow, an autonomous deep research agent powered by LangGraph and Gemini LLM.
- The system orchestrates an iterative self-correction research loop that evaluates gathered evidence and refines search queries dynamically.
- Additionally, it implements a concurrent claim-level verification pipeline that fact-checks generated findings against live web sources.
- Designed a persistent Streamlit dashboard, and integrated LangSmith to enable comprehensive observability and tracing of complex multi-agent graphs.

EventScout AI — Autonomous Tech Event Discovery Agent

- **Tech Stack:** Python, LangGraph, Google Gemini, Tavily, Exa, Brave Search, BeautifulSoup4, Playwright, Pydantic v2, FastAPI, Streamlit.
- Built a 7-stage autonomous LangGraph workflow powered by Google Gemini to discover, extract, and organize tech conferences, hackathons, and meetups based on user-defined locations, domains, and timeframes.
- Integrated a multi-engine search pipeline using Tavily, Brave Search, and Exa with adaptive query generation, dynamic gap-analysis feedback loops, fuzzy deduplication, and state checkpointing for resumable execution.
- Built an interactive event discovery UI using Streamlit backed by FastAPI REST APIs, enabling dynamic progress tracking, location/category filters, historical scan retrieval, and formatted Markdown report exports.
- **Future Enhancements:** Transition to a scraping-first architecture using `httpx`, `asyncio`, and JSON-LD extraction to crawl platforms such as Eventbrite, Meetup (GraphQL), Luma, Unstop, and DevFolio, reducing API dependency while improving local event coverage.

ACHIEVEMENTS & CERTIFICATIONS

[VIEW CERTIFICATES](#)

PG State & University-Level Programming Competitions

1st Place — Python Programming Competition, Tech-Fest

Sardar Patel University

Vallabh Vidyanagar, Gujarat

Winner — Code Seige (Python), Tech Kaushalya

Dept. of Computer Science, Gujarat University

Ahmedabad, Gujarat

Runner-up — Logic Forge (Python), Tech Kaushalya

Dept. of Computer Science, Gujarat University

Ahmedabad, Gujarat

1st Place — Code Combat (Java), IGNITE

CMPICA, CHARUSAT

Changa, Gujarat

Hackathons

Participant — SSIP Regional Hackathon, New India Vibrant Hackathon

Ganpat University

Kherva, Mehsana

Certifications

AWS Training & Certification — Introduction to Generative AI: Art of the Possible

Completion Certificate

Online