YOG PRAJAPATI

Ahmedabad, India | +91 7874078100 | yog.devmail@gmail.com | yogprajapati.site | linkedin.com/in/yogprajapati | github.com/yogprajapati

PROFESSIONAL SUMMARY

AI/ML Engineer with hands-on experience building multi-agent AI systems, RAG pipelines, and production backends using LangChain, LangGraph, LangSmith, and FastAPI. Skilled across Python and the MERN stack, with a track record of owning client-facing AI products end-to-end, from requirements gathering through deployment.

SKILLS

Languages: Python, JavaScript/TypeScript, Go.
AI/ML: LangChain, LangGraph, LangSmith, RAG Systems, FastAPI, Machine Learning, Deep Learning, Natural Language Processing (NLP), Recommender Systems, TensorFlow, PyTorch, Transfer Learning, Image & Video Processing.
System Design: HLD, LLD, Scalability, DNS, Idempotency, Message Queues, Redis, CAP Theorem, Observability, Circuit Breaker.
Databases: MongoDB, MySQL, Vector Databases (FAISS, ChromaDB, Qdrant, Pinecone).
Frameworks/Libraries: Next.js, React.js/Vite, Express.js, Node.js.
Developer Tools: Git/GitHub, Docker, VS Code/Cursor, Postman/Swagger, Render, Vercel, Cloudinary, Upstash.

WORK EXPERIENCE

Associate AI Engineer | Fx31 Labs *Ahmedabad, India | Jun 2026 - Present*

- Engaged in client retirement planning platform end-to-end for 500+ US based users, independently owning deep domain expertise in retirement planning.
- Designed 2+ multi-agent AI systems capable of autonomous reasoning across complex workflows.
- Built an end-to-end Monte Carlo simulation engine that models 10,000+ scenarios per user portfolio, including black swan and major life events, achieving 95-96% accuracy.
- Conducted weekly client calls to gather business requirements and translated them into working application features.
- Collaborated on an AI-based adaptive interview intelligence system integrated into the company's product, Talent31.ai, cutting manual screening time by 40%.
- Applied advanced RAG and deep learning techniques across 3+ production projects.

AI Intern | Fx31 Labs *Ahmedabad, India | Dec 2025 - May 2026*

- Set up backend systems in Python and FastAPI using a microservices approach, cutting response latency by 30%.
- Developed AI chatbots and assistants that automated conversations and handled 1,000+ user queries per week for client projects.
- Handled 20+ client calls to understand requirements, explain solutions, and deliver features aligned with business needs.
- Collaborated with a team of 6 to build, test, and deploy AI-based applications.

PROJECTS

TrueLead | AI-Powered B2B Sales Intelligence Platform *Jun 2026*

- Created a production-ready AI sales intelligence platform using a cost-optimized multi-agent pipeline (Google ADK) that processes 1,000+ company profiles per run into verified, enriched prospects.
- Engineered live company research, legitimacy verification, and AI-generated prospect reports, cutting manual research time by 70% with mandatory human approval before outreach.
- Implemented production-grade reliability patterns, including retries, dead-letter queues, idempotent APIs, and graceful degradation, achieving a 99% job success rate using Redis, Asynq, and MongoDB.

Technologies: *Go, Gin, Google ADK, MongoDB, Redis, Asynq, Next.js, TypeScript, Azure OpenAI, JWT Authentication, Server-Sent Events (SSE).*

Multi-Modal RAG System *Mar 2026*

- Assembled a fully deployable multimodal RAG system using LangGraph, LangChain, FastAPI, and Azure OpenAI APIs to process 50+ repositories (Including multiple programming languages), GitHub PRs, and structured data sources.
- Established contextual AI workflows with conversation memory and FAISS vector search, improving retrieval accuracy by 90% across multiple data sources.

Technologies: *Python, FastAPI, LangChain, LangGraph, LangSmith, Azure OpenAI, FAISS Vector Store, MongoDB, Semantic Search, RAG (Hypothetical LLM, Sparse + Dense, Re-Ranker).*

iPharm | AI-Powered E-Commerce Pharmaceuticals Platform *Sep 2025*

- Architected a scalable, multi-vendor e-commerce backend managing 5,000+ SKUs with a focus on high availability and system reliability.
- Implemented a content-based recommendation system in Python, improving product click-through rates by 28%.

Technologies: *MERN Stack, Razorpay, Socket.IO, Python (Recommender Systems), Cloudinary.*

Leaf AI | Potato Leaf Disease Detection *Jan 2025*

- Trained a real-time potato leaf disease detection system, achieving 97% classification accuracy across healthy and infected leaves.
- Enhanced prediction accuracy by 15% through image validation, preprocessing, transfer learning (ImageNet VGG16) and a CNN model with instant user feedback.

Technologies: *React.js, REST APIs, Deep Learning, TensorFlow, Pandas, NumPy, Seaborn, Transfer Learning.*

EDUCATION

GLS University | B.Tech, Computer Science & Engineering (AI/ML Specialization) *Sep 2023 - Apr 2026*
Ahmedabad, India | CGPA: 8.17/10.0

Gujarat Technological University | Diploma in Computer Engineering *Jun 2020 - Aug 2023*
Ahmedabad, India | CGPA: 7.92/10.0

CERTIFICATIONS & TRAINING

Green Skills & Artificial Intelligence Foundation | Programming with JavaScript | Python for Data Science | AI & Development | Fundamentals of Java Programming