

ABHISHEK KEVIN GOMES

Applied AI Engineer | Agentic Systems | LLM & RAG Applications

abhishekkevingomes@gmail.com | LinkedIn | GitHub | Portfolio

Applied AI Engineer with 2+ years of experience building production LLM applications, agentic workflows, and RAG systems using **Python**, **FastAPI**, **LangChain**, **LangGraph**, and **Azure OpenAI**. Delivered enterprise automation handling **1,000+ monthly requests** at **98%+ compliance accuracy**, with measurable gains in token efficiency, response time, and release speed. Hands-on with MCP, token streaming, structured outputs, LLM evaluation, guardrails, observability, and full-stack AI delivery on Azure and AWS.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, TypeScript

AI & Agentic: LangChain, LangGraph, RAG, MCP, OpenAI API, Azure OpenAI, Google GenAI, Tool Calling, Structured Outputs, LLM Evaluation, Guardrails, Prompt Engineering

Backend: FastAPI, Flask, REST APIs, PostgreSQL, MongoDB, Supabase, Redis, ChromaDB, Gremlin

Frontend: React, React Native, Next.js, Streamlit, SSE/WebSockets

Cloud & DevOps: Azure, AWS, Azure DevOps, Azure App Service, Docker, Docker Compose, CI/CD, GitHub Actions, Boto3, ARM Templates

Tools: Git, GitHub, ServiceNow, Semantic Search, Vector Databases, Embeddings, Knowledge Graphs, Terraform (Basic)

WORK EXPERIENCE

HCLTech

Analyst

Noida, India

09/2025 – Present

- Engineered a **LangGraph**, **Azure OpenAI**, and **RAG** workflow for **1,000+ monthly ServiceNow** requests covering Azure network security changes, reaching **98%+ compliance accuracy**.
- Built retrieval-grounded policy validation with knowledge-graph context, document retrieval, **Pydantic** structured outputs, and human-in-the-loop review; **Redis** caching cut token usage by **35%** and response time by **45%**.
- Shipped a **React/FastAPI/Boto3** cost-observability platform monitoring **500+ AWS resources**, surfacing **20%+** underutilized assets for review.
- Operationalized document Q&A pipelines with **LangChain** and **ChromaDB**, deployed through **Docker** and **Azure DevOps CI/CD**, cutting release cycle time by **50%** and latency by **30%**.

Graduate Engineer Trainee

10/2024 – 09/2025

- Developed and shipped **LangGraph** POCs featuring **token streaming**, **MCP**-based tool integration, and **RAG** pipelines for internal AI workflow use cases.
- Built **FastAPI**-backed prototypes using retrieval orchestration and structured outputs, helping convert exploratory LLM ideas into deployable delivery candidates.

Caset.in

Full Stack Intern

Remote

06/2024 – 01/2025

- Built and shipped a **React Native** MVP, owning implementation through deployment in under **6 months** for a cross-platform startup product.
- Developed **Flask** REST APIs supporting **3+** core product workflows, improving iteration speed for the product team.

PROJECTS

Azure AIOps Network Security Automation Platform

LangGraph / Azure OpenAI / FastAPI / Pydantic / Redis / Gremlin / RAG / ServiceNow

- Built an agent-based workflow for **1,000+ monthly** Azure network policy operations with ServiceNow integration, retrieval-based context, and policy validation.
- Added structured execution, auditability, and human-in-the-loop control for production-facing cloud operations.

CloudPulse — AWS Cost and Resource Analytics Dashboard

React / FastAPI / Boto3 / LangGraph / AWS

- Built a full-stack dashboard collecting and visualizing data from **500+ AWS resources** for cost review and prioritization.
- Added an LLM-based summarization layer that generated actionable cost-optimization recommendations for underutilized infrastructure.

PUBLICATIONS

An In-Depth Review of AI/ML Techniques in Emotion-Preserving Multilingual Video Translation

CRC Press / Taylor & Francis, 2025 | DOI available on request or profile

- Co-authored a review covering speech recognition, neural machine translation, voice cloning/TTS, and lip-sync generation for multilingual video translation.
- Focused on preserving emotional tone and expression in practical cross-cultural communication scenarios.

EDUCATION & CERTIFICATIONS

Bachelor of Science in Computer Science & Technology

Abdul Kalam Technical University, Lucknow, India

GPA: 8.04 / 10

- Coursework: Cloud Computing, Distributed Systems, Data Structures & Algorithms.
- Certifications: Azure AI Fundamentals (AI-900), Azure AI Engineer Associate, Azure Administrator Associate (AZ-104).