

Arun Shetty

Generative AI & Python Automation Architect

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Professional Summary

Generative AI and Python Automation Architect with 10+ years of experience designing and implementing enterprise-grade AI solutions on Azure. Expert in LLM-based architectures, Retrieval-Augmented Generation (RAG), LangChain, and GPT-4o integration for automation and intelligent decision-making. Skilled in model orchestration, prompt engineering, and multi-cloud AI deployments with proven success in leading cross-functional teams.

Core Skills

- AI/GenAI Architecture: GPT-4o, Azure OpenAI, LangChain, LangGraph, Agentic RAG, Knowledge Graphs
- Python & Frameworks: Django, Flask, FastAPI, asyncio, Pydantic, NumPy, Pandas, Matplotlib, OpenCV, Tesseract
- Cloud & DevOps: Azure Functions, Logic Apps, App Services, Key Vault, AI Search, Cosmos DB, CI/CD, Docker, Jenkins
- Automation: Python Scripting, UiPath RPA, Workflow Optimization
- Data & Integration: REST APIs, OAuth2, Azure API Management
- Soft Skills: Leadership, Mentorship, Collaboration, Design Thinking

Professional Experience

Associate Manager – Generative AI / Python Architect | Accenture | 2015 – Present

- Led GenAI-driven Python application development using GPT-4o, LangChain, and RAG pipelines integrated with Azure AI Search and Cosmos DB.
- Designed modular GPT orchestration framework requiring no code changes for model upgrades.
- Built AI chatbot for ITDD with contextual memory and history retention using GPT-4o.
- Created a document scoring profile in Azure AI Search to prioritize the latest content for better retrieval accuracy.
- Delivered 6+ GenAI POCs transitioned to production, reducing manual effort by 40% and improving productivity by 30%.
- Built dynamic PowerPoint generation engine and chart insights automation using GPT-4o + OpenCV/Tesseract.
- Coordinated Infra, DevOps, and Release activities for FDD, ITDD, and DNA applications, ensuring seamless deployment and compliance.
- Recognized by PMO and leadership (Ashish Pant) for exceptional technical delivery and innovation.

Certifications & Training

- Designing Generative AI for Business with Microsoft Azure OpenAI – Great Learning & Microsoft
- Agentic AI Course – Krish Naik Academy
- Microsoft Certified: Azure AI Fundamentals
- Continuous Learning: Prompt Engineering, LangChain, RAG Pipelines, AI Search, Document Intelligence
- Upcoming: AI-102: Designing and Implementing a Microsoft Azure AI Solution (Sept 2025)

Awards & Recognition

- Recognized for AI innovation and delivery excellence by PMO & Business Teams
- Spot Award for reusable GPT orchestration framework
- Team Excellence Award for LLM-driven enhancements in ITDD platform

Research & Exploration

- Exploring Agentic AI frameworks and multi-agent orchestration models for enterprise automation.
- Experimenting with Knowledge Graph-based retrieval to enhance contextual AI reasoning.
- Developing Python + LLM utilities for document intelligence, summarization, and insight extraction.

Project: IT Due Diligence Platform – GenARC

- Architected end-to-end LLM workflow enabling context-aware Q&A and data summarization.
- Developed modular backend APIs and integrated GPT-based chart insights extraction.
- Implemented RAG-based search across documents, improving accuracy and response quality.
- Delivered document intelligence automation improving data consistency and speed.

Project: Sales Samples Application – Procter & Gamble (P&G)

- Led team in developing Sales Samples application using Django and Azure PaaS.
- Implemented secure authentication with Azure AD OAuth 2.0 and API Management.
- Automated data migration, reducing deployment effort and errors.
- Designed reusable modules for reporting and vendor onboarding improving maintainability.

Siebel CRM Developer | Capgemini / Accenture | 2010 – 2015

Delivered CRM customizations across telecom and finance sectors. Developed predictive Python scripts for log analysis and early crash detection, reducing downtime by 60%.

Education

Bachelor of Engineering (Electronics & Communication) – Adichunchanagiri Institute of Technology (VTU), 2008