

# Sanya Prem Bhasin

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## Technical Skills

**Languages:** Python, SQL, JavaScript | **Backend & APIs:** FastAPI, Flask, REST API, Microservices, Async Programming | **GenAI & LLM:** LangChain, LangGraph, Microsoft AutoGen, RAG, Vector Embeddings, OpenAI (GPT-4), Anthropic Claude, Azure OpenAI, Prompt Engineering, Conversational AI | **ML & Data:** TensorFlow, Keras, PyTorch, Scikit-learn, XGBoost, Pandas, NumPy, NLP | **Databases:** Oracle, SQL Server, PostgreSQL, Redis, DynamoDB, ChromaDB | **Cloud & DevOps:** AWS (Lambda, Step Functions, S3, DynamoDB, API Gateway, CloudWatch), Azure, Docker, Git, CI/CD

## Professional Experience

**Custom Software Engineering Analyst**, Accenture | Bangalore Nov 2022 – July 2025

- **OpsAI – Operations Automation Platform:** Built multi-agent AI system using LangGraph automating operations support, reducing manual tickets by 70% (80-100 to 20-30 daily) and incident response time by 92% (2-3 hours to 15 minutes).
- Engineered 6 specialized agents: ActiveMQ Guardian, Batch Job Monitor (400+ jobs with ML failure prediction), Database Assistant (NL-to-SQL with RAG), TRM Monitor, Ticket Intelligence, Report Generator.
- Implemented RAG system with ChromaDB ingesting 3000+ tickets achieving 85% relevance; developed ML models (Prophet, Random Forest) for failure prediction with 80% accuracy and 15-30 min early warnings.
- Built FastAPI backend with Celery for distributed monitoring; integrated Oracle, ActiveMQ
- **Tech Stack:** Python, LangGraph, LangChain, FastAPI, Celery, ChromaDB, Scikit-learn, Oracle
- Architected enterprise application migration from Angular/ASP.NET to Mendix serving 500+ users; reduced delivery cycle by 25% and optimized SQL queries improving response time from 8s to 6s.
- **Tech Stack:** Mendix, ASP.NET, SQL Server, REST API

## Independent Projects & Upskilling

**Software Engineering & AI/ML Development** July 2025 – Present

- Invested 6 months in intensive software development and AI/ML upskilling: built 2 full-stack AI applications with modern tech stacks, solved 100+ DSA problems on LeetCode, and earned 3 Microsoft Azure certifications (AI-102, AI-900, DP-900).

**AI Code Review Platform – Serverless Multi-Agent System** GitHub

- Built serverless system orchestrating 3 AI agents (Security, Performance, Best Practices) via AWS Step Functions; achieved 15-second PR analysis with 67% faster execution through parallel processing and 99%+ cost reduction (\$0.0002/review).
- Engineered RAG pipeline with 1536-dimensional vector embeddings in DynamoDB for semantic code search; implemented cosine similarity matching (<100ms latency) enabling context-aware vulnerability detection from historical reviews.
- Developed event-driven architecture with GitHub webhook integration using HMAC-SHA256 verification and AST-based parser; automated high-risk function identification reducing analysis scope by 60%.
- **Tech Stack:** Python, AWS (Lambda, DynamoDB, Step Functions, S3, API Gateway, CloudWatch), Vector Embeddings, RAG, GitHub Webhooks

**QuestAI – AI-Powered Interview Simulator** Live Demo

- Built full-stack application with FastAPI backend and Streamlit frontend; facilitated 15+ mock interviews with automated scoring and feedback generation within 2 minutes.
- Engineered multi-agent system using Microsoft AutoGen with 3 specialized agents (Interviewer, Evaluator, Coordinator) for dynamic conversations achieving 90%+ relevance in follow-up questions.
- Integrated LangChain for prompt engineering and RAG-based resume parsing; implemented real-time PDF report generation.
- **Tech Stack:** Python, FastAPI, Streamlit, Microsoft AutoGen, LangChain, PyPDF2, Docker

## Education

**Bachelor of Engineering in Electronics Engineering**, Shah & Anchor Kutchhi Engineering College, Mumbai | GPA: 8.61/10.0 2018 - 2022

## Certifications

Microsoft Azure AI Engineer Associate (AI-102) | MLOps Bootcamp | Agentic AI with LangGraph & LangChain | AI Agents with Microsoft AutoGen