

Abraham Jeevan Roy

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SUMMARY

Results-driven Senior Software Engineer with 6.9 years of proven expertise in Python, agentic AI systems, and cloud/native solutions. Demonstrated success leading cross-functional teams of 15+ engineers and delivering enterprise-scale AI applications that improved operational efficiency by 30%. Expert in developing RAG-based conversational systems, implementing Model Content Protocol MCP, and deploying containerized ML workloads using Kubernetes. Strong background in software development lifecycle, quality assurance, and agile methodologies with specialized experience in autonomous AI agents and multi-agent frameworks.

EXPERIENCE

Developer | Team Lead

Tata Consultancy Services

September 2018 - Present, Kochi, Kerala, India/Mumbai, Maharashtra

- Results-driven Senior Software Engineer with **7 years** of proven expertise in Python, agentic AI systems, and cloud/native solutions. Demonstrated success leading cross-functional teams of 5+ engineers and delivering enterprise-scale AI applications that improved operational efficiency by 30%. Expert in developing RAG-based conversational systems, implementing Model Content Protocol (MCP), and deploying containerized ML workloads using Kubernetes. Strong background in software development lifecycle, quality assurance, and agile methodologies with specialized experience in autonomous AI agents and multi-agent frameworks.

PROJECT

Enterprise Agentic AI Platform

- Developed autonomous AI agents using LangGraph and CrewAI frameworks for complex workflow automation
- Implemented MCP for inter-agent communication and collaborative task execution
- Achieved 40% improvement in process efficiency through intelligent agent coordination.

RAG Based Conversational System

- Built production-scale chatbot using Phi-3 Instruct model with vector database integration
- Deployed on AWS with Kubernetes orchestration, serving enterprise clients with 99.9% availability
- Integrated real-time monitoring and performance optimization using Prometheus and Grafana.

Computer Vision & ML Pipeline

- Developed ML-powered image recognition systems for manufacturing quality control
- Implemented advanced forecasting models using DeepAR and Meta Prophet for financial services
- Created scalable data processing pipelines with automated model validation and serving.

EDUCATION

Bachelor of Technology B.Tech – Computer Science and Engineering

Federal Institute of Science and Technology • Angamaly, Kerala, India • 2014- 2018

- Graduated with distinction, specializing in AI/ML and software engineering
 - "Star of ILP" and "Prime Performer" during TCS Integrated Learning Program
 - Innovative work in artificial intelligence, machine learning, and system optimization.
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CERTIFICATIONS

AWS Certified Solutions Architect

2025

- In Progress.

Microsoft Azure AI Engineer Associate

2024

TensorFlow Developer Certificate

2023

Agile Project Management Certification

2021

SKILLS

Python Expert, C, JavaScript, Java, Kotlin, Swift

PyTorch, TensorFlow, Transformers, LangGraph, LangChain, CrewAI, AutoGen

Model Content Protocol MCP, Multi-Agent Systems, RAG Architectures, Autonomous Decision-Making

AWS SageMaker, EC2, Lambda, S3, Kubernetes, Argo, Docker, CI/CD, GitLab

PostgreSQL, MongoDB, MS SQL, Snowflake, Vector Databases

Model Deployment, Performance Testing, Automated Testing, Quality Assurance Monitoring: Prometheus, Grafana, Kibana, Real-time System Optimization

English, Hindi, French, Arabic, Spanish
