

ABHISHEK MISHRA

PRINCIPAL ENGINEER | 6.5+ YEARS EXPERIENCE

CONTACT

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SKILLS

- Generative AI
- Multi-Agent Systems
- Retrieval Augmented Generation (RAG)
- LLM (Large language Model)
- Machine Learning
- Vector DB
- MLOps
- LLMOps
- Autogen
- Langchain
- AWS Bedrock
- CICD
- Docker
- GCP (Google cloud platform)
- AWS (Amazon web services)
- Azure AI foundry
- Python3
- Golang
- C++

CERTIFICATIONS

- ML specialization: Coursera (Andrew NG)
- Supervised Machine Learning: Coursera (Andrew NG)
- Unsupervised Learning, Recommenders, Reinforcement Learning: Coursera (Andrew NG)
- Advanced Learning Algorithms : Coursera (Andrew NG)



PROFILE

Principal AI Engineer with 6.5+ years experience in designing, developing and deploying production-grade AI solutions across security operations, analytics, and enterprise knowledge management. Expert in agentic AI frameworks, RAG architectures, and LLMOps with proven ability to bridge cutting-edge AI research and business value. Multi-domain background spanning GenAI, quantum key distribution, and embedded systems.



WORK EXPERIENCE

Hughes Systique Pvt Ltd 2019 - PRESENT

AI-Powered Security Operations Platform | 2025 - Present

- Designed, developed and deployed (multi - agent) agentic AI system (Autogen framework) integrating multiple security tools (Splunk, Cortex XSIAM, Nautobot) with natural language interface, multi-agent architecture, real-time CVE scraping from 15+ sources, automated reporting and visualization
- Impact:** Enabled SOC analysts to query incidents/alerts conversationally; automated threat intelligence gathering

Call & Case Analytics Pipeline | 2023-2024

- Engineered end-to-end platform: call center data ingestion → Azure Whisper transcription → LLM analysis → insight generation → automated QA/reporting
- Impact:** Reduced manual auditor effort by 80%, operational costs by 60%+

RAG-based Knowledge Assistant | 2022 - 2023

- Built enterprise Q&A system for HR/Finance/Admin policies with multi-format document ingestion (PDFs, DOCs, PPTs, images), semantic chunking, and vector search
- Impact:** Organization-wide self-service policy access

Quantum Key Distribution (QKD) Application | 2020 - 2022

- Worked on design, development and deployment of ETSI-compliant KMS and SDN controller with Trusted Node and Hub-and-Spoke architectures enabling long distance quantum key sharing; implemented complete key lifecycle (generation, relay, sync, storage, secure APIs)
- Impact:** Scalable quantum-safe cryptography infrastructure with evaluated performance metrics (key rate, latency, network scalability)
- Tech: Go, C++, SDN, OpenVPN, ETSI QKD (004/014/015)

Satellite Ground Station Control System | 2019 - 2020

- Built natural-language test automation framework for multi-component orchestration and automated reporting
- Tech: C++, Python, Protobuf



EDUCATION

Dronacharya College of Engineering 2015 - 2019

BTech (Computer Science) | Maharish Dayanand University