

# Om Dhede

AI/ML Engineer · MLOps & CI/CD · Technology Consulting · IT Risk & Compliance

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## Professional Summary

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B.Tech AI & Data Science graduate and KPMG IT Audit Analyst with 16+ months of enterprise consulting experience across 14+ client engagements. Built and deployed production-grade AI tools including a FastAPI audit evidence analysis REST API and GenAI compliance assistants powered by LangChain, RAG pipelines, and LLM APIs. Brings a rare dual profile — production-grade Python and AI engineering combined with deep SOX/ITGC/COBIT domain knowledge — enabling AI-powered risk automation grounded in real enterprise practice. Targeting an IT Developer Consultant role to deliver intelligent process automation and digital transformation for enterprise clients.

## Technical Skills

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**Python & AI Engineering:** Python (Pandas, NumPy, FastAPI, Scikit-learn, Pydantic, joblib), SQL, ML Fundamentals, Supervised Learning, Classification Models

**Generative AI & LLMs:** LangChain, LLM API Integration, Prompt Engineering for LLMs & AI Agents, Agentic AI Systems, OpenAI API, Streamlit, Conversational AI, NLU

**RAG & Vector Search:** RAG Pipelines, ChromaDB, OpenAI Embeddings, Semantic Search, Document Ingestion Pipelines

**AI Model Deployment / MLOps:** Docker, GitHub Actions CI/CD, Render, AWS Lambda, Model Versioning, Health-check Endpoints, pytest, flake8

**Cloud & Data:** GCP (BigQuery, Vertex AI fundamentals), AWS (Cloud Practitioner Certified), Azure, Snowflake, Power BI, Advanced Excel

**Full-Stack & Dev Tools:** TypeScript, Next.js 14, React, Redis, OAuth 2.0, Vercel, Git

**Audit & Compliance:** SOX, ITGC, ITAC, IPE, Access Management, Change Management, SoD, Risk Assessment

## Experience

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**BSR & Co. LLP (KPMG India)** — *IT Risk & Technology Consulting*

*Pune, MH*

*Analyst (Promoted from Academic Intern)*

*Jul 2025 – Present*

- Executed end-to-end SOX-compliant ITGC, ITAC, and IPE testing across 14+ enterprise client engagements in BFSI, Manufacturing, and IT/SaaS, evaluating access management, change management, and SoD controls across SAP S/4HANA, SAP ECC, and Microsoft D365 — covering 100+ controls per engagement cycle.
- Developed Python scripts to automate evidence validation and exception analysis workflows, reducing manual testing effort by ~30% and improving cross-engagement consistency across concurrent audit populations.
- Identified control deficiencies through evidence-based walkthroughs; collaborated with C-suite stakeholders and process owners to deliver structured remediation roadmaps aligned to SOX, and regulatory compliance standards — enhancing audit readiness across all client engagements.

*Academic Intern*

*Jan 2025 – Jul 2025*

- Supported ITGC/ITAC testing through documentation review, evidence collection, and supervised control walkthroughs across multiple engagements using SAP, SQL, and Excel; contributed to full-time Analyst conversion within 6 months.

**IBM**

*Jun 2023 – Jul 2023*

*Machine Learning Intern*

*Pune, MH*

- Designed and deployed a Python/Scikit-learn ML model achieving **97% classification accuracy** for anomaly and risk detection across structured enterprise datasets; packaged as a reusable inference pipeline.
- Presented actionable model insights to **100+ stakeholders**, translating complex ML outputs into business-relevant findings for both technical and non-technical audiences.

## Projects

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**Audit Evidence Analyzer API** | *Python, FastAPI, Pandas, REST API, Render* | [GitHub](#) ↑

2026

- Built a production-ready REST API using FastAPI that ingests structured audit evidence datasets, executes automated statistical exception analysis via Pandas, and returns risk-flagged records as structured JSON — reducing manual evidence review effort by an estimated **60%**.
- Deployed to Render with auto-generated Swagger UI documentation, demonstrating end-to-end API development, cloud deployment, and enterprise internal tooling design aligned to consulting delivery standards.

**SOX Compliance AI Assistant** | *Python, Streamlit, LLM API, Generative AI* | [GitHub](#) ↑

2026

- Developed a **GenAI-powered** conversational assistant answering SOX, ITGC, and audit framework queries via Streamlit + LLM API integration — enabling faster compliance readiness assessments and client onboarding support.

- Deployed publicly on **Streamlit Cloud** with persistent multi-turn conversation memory, demonstrating end-to-end LLM orchestration and enterprise compliance use case design.

**Audit Policy Q&A System (RAG)** | *Python, LangChain, ChromaDB, OpenAI Embeddings, Streamlit* | [GitHub](#) ↑ 2026

- Engineered a **RAG pipeline** ingesting COBIT 2019 and CISA policy documents into a ChromaDB vector store, enabling semantic search and AI-driven policy Q&A with contextually grounded, source-cited responses.
- Surfaced relevant policy clauses in **under 5 seconds**, demonstrating proficiency in LangChain orchestration, embedding pipelines, and enterprise AI tool development.

**P2P Secure Messaging Platform** | *TypeScript, Next.js 14, OAuth 2.0, Redis, Vercel* | [GitHub](#) ↑ 2024

- Built a secure real-time messaging platform with OAuth 2.0 authentication; designed system architecture to mitigate data breach and unauthorised access risks — applying access management principles from IT audit practice.
- Automated deployment pipelines on Vercel, reducing operational errors by **50%** and demonstrating full-stack DevOps proficiency.

## Education

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**BRAC T's Vishwakarma Institute of Information Technology**

*B.Tech — Artificial Intelligence & Data Science* | **CGPA: 8.5 / 10**

*Oct 2021 – May 2025*

*Pune, MH*

## Certifications

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CISA — Certified Information Systems Auditor, ISACA

*In Progress, Q3 2026*

COBIT 2019 Foundation, ISACA

*In Progress, Q2 2026*

McKinsey & Company Forward Program — Digital Learning Badge

*Ongoing, 2026*

AWS Cloud Practitioner — Amazon Web Services / Coursera

*2024*

IBM DevOps & Software Engineering — IBM / Coursera

*2024*

JP Morgan Excel & Software Engineering Simulations — Forage

*2024*