Riya Jagtap

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AI-Focused Software Engineer with 2+ years of experience in backend and cloud-native system development. Skilled in Python, C/C++, and Java, with hands-on experience across OCI Functions, containerized deployments, and automation pipelines. Currently exploring Generative AI, LLM-based applications, and prompt engineering to design intelligent, scalable solutions that merge reasoning and automation.

SKILLS & TECHNOLOGIES-

- ***Programming & Frameworks:*** Python, Java, C/C++, FastAPI, LangChain, REST APIs, Microservices
- ***Artificial Intelligence & Machine Learning:*** Generative AI, Large Language Models (OpenAI, Gemini, Cohere), Prompt Engineering, Model Context Protocol (MCP) Concepts, Neural Networks, Natural Language Processing (NLP), TensorFlow
- ***Cloud & MLOps:*** Familiar with OCI Functions, Docker, Kubernetes, Jenkins, Git, CI/CD pipelines, and serverless deployment concepts.
- ***Data & Databases:*** MySQL, MongoDB, Data Extraction & Processing
- ***OS:*** Linux, Unix

PROFESSIONAL EXPERIENCE-

Oracle, Pune   July 2023-Present
Associate Consultant

- **Developed Java-based data extraction utilities** for BRM and legacy systems, converting database records into XML payloads for downstream processing and migration, improving data reliability and migration accuracy by **30%**.
- **Extended Oracle BRM functionalities** by developing **C-based custom opcodes**, automating client-specific business logic and reducing manual operational effort by **20%**.
- **Configured and automated event rerating pipelines** using **Shell and Groovy scripts** integrated with OCOMC**,** improving rerate accuracy and reducing processing time by **~40%**.
- **Built reusable debugging and monitoring components** for operational automation, improving traceability and reducing issue resolution time by **20%**.
- **Collaborated on OCI-based deployments and distributed mediation systems (OCOMC)** to streamline data and event workflows, enhancing system stability and increasing batch throughput.

PROJECT EXPERIENCE-

RAG-based GenAI Assistant (Python, LangChain, Vector Database, LLM, Cline, MCP)   Sept 2025-Oct 2025

- Built a Retrieval-Augmented Generation (RAG) system for contextual document intelligence for BRM OCOMC component.
- Implemented prompt-engineered LLM workflows for context-aware reasoning aligned with GenAI agent architectures.

Suspicious Activity Detection (Deep Learning, Python, CNN + LRCN)   Oct 2022-Jul 2023

- Designed a real-time video surveillance system for anomaly detection using deep learning.
- Achieved ~20% higher detection accuracy and reduced false alarms - improved security response time.

EDUCATION-

- Vishwakarma Institute of Technology, Pune (Savitribai Phule Pune University)   May 2023
  B.Tech in Computer Engineering | **CGPA: 9.13**
- K.K. Wagh Polytechnic, Nashik   Jul 2020
  Diploma in Computer Technology | **Percentage: 95.26**

CERTIFICATION-

- Oracle Cloud Infrastructure Generative AI Professional
- Oracle Cloud Infrastructure AI Foundation

- Oracle Cloud Infrastructure Data Science Professional
- Oracle AI Agent Studio for Fusion Applications Foundations Associate
- Oracle Certified Associate, Java SE 8 Programmer