

DEVANG DIXIT

Generative AI and ML Engineer

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Professional Summary

Generative AI and Machine Learning Engineer with 1+ year of experience building and productionizing enterprise AI solutions for a leading global **networking and cybersecurity company**. Experienced in designing scalable Python applications, integrating Large Language Models (LLMs) and machine learning models, and developing high-performance backend services using FastAPI, PostgreSQL, Docker, Kubernetes, and OpenShift. Skilled in optimizing AI systems through asynchronous and parallel processing, designing resilient APIs, and delivering secure, cloud-native applications from proof of concept to production with a strong emphasis on scalability, reliability, and engineering excellence.

Technical Skills

Programming: Python, SQL, C++, JavaScript

AI, Machine Learning & GenAI: Large Language Models (LLMs), Prompt Engineering, **Retrieval-Augmented Generation (RAG)**, Google Gemini, PyTorch, TensorFlow, Embedding Models, Vector Search, Anomaly Detection

Backend & APIs: FastAPI, REST APIs, Asynchronous Programming, Batch Processing, API Integration

Databases: PostgreSQL, Oracle Database, Vector Databases

Cloud, DevOps & Tools: Docker, OpenShift, Kubernetes, Git, Linux, Jenkins

Experience

Xoriant Solutions Pvt. Ltd.

Nov 2025 – Present

AI/ML Engineer

Pune, India

- Develop and productionize **Python-based AI and Machine Learning services** for a leading global **networking and cybersecurity company**, delivering intelligent analytics and automation solutions for enterprise-scale applications.
- Engineered scalable backend services using **FastAPI**, REST APIs, PostgreSQL, asynchronous programming, and parallel processing to support production AI applications.
- Developed and deployed cloud-native applications using **Docker**, **Kubernetes**, and **OpenShift**, while improving system reliability through observability, performance optimization, and robust error handling.
- Designed and deployed end-to-end **Kubeflow pipelines** for model training, validation, deployment, and monitoring, enabling scalable and reproducible machine learning workflows.
- Built ML solutions for **Anomaly Detection**, **Root Cause Analysis (RCA)**, and **Time Series Forecasting**, helping improve operational visibility and proactive issue resolution.

GTARANG Pvt. Ltd.

Apr 2025 – Oct 2025

AI/ML Engineer

Pune, India

- Developed a **real-time project monitoring dashboard** to track project progress, resource utilization, and key operational metrics, improving project visibility and decision-making.
- Designed and implemented a custom **AI-powered chatbot assistant** to automate internal support, streamline client interactions, and improve access to organizational knowledge.
- Contributed to the design and development of a **Small Language Model (SLM)** for intelligent report generation, task management, and workflow automation.

GTARANG Pvt. Ltd.

Jan 2025 – Mar 2025

AI/ML Intern

Pune, India

- Assisted in developing AI-driven applications, backend services, and automation tools using Python while gaining hands-on experience in machine learning and software development.
- Supported the development of internal dashboards, AI prototypes, and workflow automation solutions through research, implementation, and testing.

Projects

AnomalySuite – Enterprise Anomaly Detection Framework | *Python, PyTorch, TensorFlow, Scikit-learn* **Private – Internal**

- Designed and developed an enterprise-grade **anomaly detection framework** to identify abnormal behavior across operational and time-series data using statistical, machine learning, and deep learning techniques.
- Implemented a unified framework supporting Autoencoders, Isolation Forest, One-Class SVM, Local Outlier Factor, LSTM Autoencoders, and Variational Autoencoders, enabling rapid model experimentation, deployment, and internal adoption across AI use cases.

RLGuard – Reinforcement Learning for Adaptive AI Guardrails | *Python, Reinforcement Learning, LLMs, FastAPI*

Private – Personal (In Progress)

- Building an adaptive AI security framework that applies **Reinforcement Learning** to optimize guardrail policies for LLM agents, reducing prompt injection, jailbreak attacks, and unsafe tool usage while maintaining response quality.

Education

MIT ADT University

Nov 2021 – June 2025

Bachelor of Technology in Computer Science

CGPA: 7.77/10

Certifications

- Microsoft Certified: Azure AI Fundamentals
- AWS Academy Graduate - Cloud Foundations - Training Badge