



Jayesh Manani

AI Engineer | Python | Cloud

AI & Cloud Engineer with hands-on experience developing production-ready backend systems, enterprise AI applications, and cloud-native solutions. Skilled in Python, FastAPI, Docker, Kubernetes, Azure, AWS, PostgreSQL, and CI/CD, with expertise in building RAG pipelines, LLM-powered applications, and scalable data workflows. Contributed to Generative AI research at Mercedes-Benz AG and currently developing AI & Cybersecurity solutions at LEAG. Passionate about building secure, scalable, and maintainable software for enterprise environments.

Contact

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Technical Skills

Languages

Python, C, SQL, Bash

Backend

FastAPI, Flask, REST APIs,
Microservices, Pydantic

AI & ML

LLMs, OpenAI, LangChain,
LangGraph, Agentic AI, RAG,
Hugging Face, MLflow, MLOps

Cloud & DevOps

Linux, Azure, AWS, GCP, Databricks,
Docker, Kubernetes, Git, Gitlab
CI/CD, Jenkins, GitOps

Datastores

PostgreSQL, Redis, VectorStore

Tools & Platforms

Azure DevOps, GitHub, GitLab, Jira,
Confluence, Claude, Delta Lake

Systems & Security

Secure Software Development,
SIEM, Microsoft Sentinel, Splunk,
IAM, API Security

Work Experience

07/2026 - Present

LEAG AG (Lausitz Energie Bergbau AG), Remote/Cottbus

Werkstudent - Cybersecurity & AI

- AI Usecase development:** Developing solutions to leverage AI for information retrieval using **MCP protocol** (Model Context Protocol)
- Generative AI & ML Engineering:** Evaluating and implementing LLM/GenAI solutions in collaboration with cross-functional security teams.

Python, Generative AI, LLMs, Machine Learning, Cybersecurity, Automation, Security Operations, MCP

04/2023 - 03/2025

Mercedes-Benz AG, Stuttgart

Werkstudent - AI & Software Engineer

- Enterprise Generative AI Solutions:** Developed an LLM-based Retrieval-Augmented Generation (RAG) chatbot for Product Data Management, enabling engineering teams to efficiently search and retrieve enterprise knowledge using Llama 3.1, Azure Databricks, and vector-based retrieval.
- AI Knowledge Retrieval & Data Processing:** Designed data ingestion and retrieval workflows using Python, embedding models, and Databricks to process structured and unstructured enterprise data for AI-powered applications.
- Cloud Data Engineering:** Built scalable data pipelines and processing workflows using Python, Azure Databricks, Azure Storage, and Delta Lake to support enterprise AI applications.
- LLM Evaluation & MLOps:** Implemented experiment tracking and evaluation workflows using MLflow to analyze RAG performance, compare model behavior, and improve application quality.
- Software Engineering & Automation:** Developed Python-based components, REST API integrations, and automated development workflows using GitLab CI/CD and Jenkins to improve software reliability and maintainability.

Python, FastAPI, REST APIs, LLMs, RAG, Llama 3.1, LangChain, Hugging Face, Azure, Databricks, Delta Lake, MLflow, Docker, PostgreSQL, GitLab, Jenkins, CI/CD, Databricks endpoint/model serving

05/2024 - 12/2024

University of Stuttgart, Germany

Research Assistant - Multi-Agent Reinforcement Learning

- Multi-Agent Reinforcement Learning:** Implemented and evaluated MARL algorithms with PhD researchers for complex simulation environments.
- High-performance Simulation:** Developed scalable simulations using JAX and JaxMARL on GPUs for training intelligent agents.
- Research Implementation:** Translated reinforcement learning research papers into reproducible Python implementations for benchmarking.

Python, JAX, JaxMARL, Reinforcement Learning, Multi-Agent Systems

Education

**M.Sc. Computer Science
(Autonomous Systems)**
University of Stuttgart, Germany
2022-2025
AI, ML, Cloud Computing, Data Engineering

B.Eng. Computer Engineering
L.D. College of Engineering, India
2014-2018

Soft Skills

Analytical Thinking & Problem Solving
Technical Communication
Cross-functional collaboration
Agile Development & Scrum Methodologies
Attention to Detail
Security-focused Mindset
Software Architecture & System Thinking
Ownership & Responsibility
Self-driven & Quick Learner

Languages

English - Proffesional Fluency
German - Proffesional Fluency

07/2022 - 03/2023
Blickshift GmbH, Stuttgart

Software Engineer

- Data Analytics Workflows:** Developed secure data processing workflows using Python, Flask, and Power BI for enterprise analytics.
- Process Automation:** Built a Flask-based billing automation application, eliminating missed billing deadlines by 99.99%.
- Backend Development:** Designed lightweight backend services to improve operational efficiency and reporting workflows.

Python, Flask, Power BI, Automation, Web Development

10/2020 - 03/2022
Sameeksha Capital, Ahmedabad, India

Software & Cloud Engineer

- Cloud Platform Development:** Developed a cloud-based fund management platform using Python, REST APIs, AWS, and GCP with security and compliance requirements.
- Workflow Automation:** Automated post-trade processing, fund allocation, and compliance workflows using Python scripts and Bash automation.
- Operational Efficiency:** Reduced manual processing effort by 60-70%, improving financial data accuracy and reducing repetitive tasks.

Python, REST APIs, AWS, GCP, Bash, Cloud Security, Financial Data Processing

Learning Projects

- ML & MLOps Pipeline - Level 3** (05/2026 - 06/2026)
- Built end-to-end ML workflows using XGBoost and Random Forest with experiment tracking through MLflow.
 - Designed pipeline orchestration using Dagster and LakeFS for automated execution and data versioning.

Python, MLflow, Dagster, LakeFS, XGBoost, MLOps

- Autonomous AI Agent for SIEM L1 Triage**
- Developed an autonomous cybersecurity agent for SIEM alert analysis using FastAPI, pydantic-ai, and LLM-based reasoning.
 - Integrated VirusTotal and AbuseIPDB APIs with Langfuse observability for execution monitoring and traceability.

Python, FastAPI, LLM Agents, pydantic-ai, Langfuse, Cybersecurity APIs

- AI Job Search Automation Agent**
- Built a Dockerized automation workflow using n8n and Apify to collect and process job postings.
 - Automated job ranking, personalized cover letter generation, and synchronization with Google Sheets.

Docker, n8n, LLMs, Automation, Apify, GoogleSheet APIs

Certifications

- Microsoft Certified: Security Operations Analyst (SC-200) - Microsoft
- Foundation of Ethical Hacking Nanodegree - Udacity
- Generative AI with Large Language Models - Coursera / DeepLearning.AI
- Cloud Engineering with Google Cloud Specialization - Coursera / Google