

GARIMA SWAMI

AI ENGINEER

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📍 Berlin, Germany

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WORK EXPERIENCE

07.2024 – 04.2025

Bengaluru, India

Software Developer, CodingPro

- Built AI-powered interviewer system using NLP and generative AI models for automated mock interviews, response analysis, and personalized feedback.
- Developed backend APIs and integrated machine learning pipelines into AI-enabled campus platform for intelligent automation and student analytics.
- Implemented resume generation and conversational AI features using LLM-based text processing and semantic analysis.
- Designed scalable services for real-time model inference, deployment, and performance optimization.
- Worked across full SDLC including model integration, backend development, testing, and production deployment.

02.2024 – 05.2024

Bengaluru

Software Developer, Indian Space Research Organisation

- Developed a Voice Recognition and Employee Information Display System using advanced Natural Language Processing (NLP) techniques, enabling intelligent voice-based interactions.
- Designed and implemented Reliability Analysis Software to perform Failure Modes, Effects, and Criticality Analysis (FMECA), automating the creation of dynamic online FMECA reports for spacecraft mechanisms.

06.2023 – 07.2023

Delhi, India

Full Stack Intern, Municipal Corporation of Delhi

- Developed smart urban solutions for efficient waste management, utilizing technologies such as Java, NLP, IoT, geotagging, GIS, and cloud computing.

EDUCATION

10.2025 – heute

Germany

M.Sc. in Artificial Intelligence, Brandenburgische Technische Universität

2021 – 2024

Bengaluru, India

B.Sc. in Computer Science, M.S. Ramaiah University of Applied Sciences

GPA: 1.9 / 4.0 (German equivalent)

PROJECTS | GITHUB

[End-to-End MLOps Pipeline | AWS · Docker · CI/CD \(demo\)](#) 🔗

- Integrated logging and alerting systems for proactive maintenance and error tracking
- Collaborated with data science and engineering teams to enhance model performance
- Conducted thorough testing across multiple stages to ensure reliability and accuracy
- Leveraged infrastructure as code (IaC) for seamless environments setup and scalability
- Developed comprehensive documentation for codebase and deployment procedures

Enterprise Knowledge Assistant (RAG System), LLMs · LangChain · Vector DB

- Developed RAG-based system with semantic search and vector database indexing
- Implemented document ingestion, chunking, and hybrid retrieval
- Built FastAPI backend for real-time knowledge querying
- Dockerized deployment for scalable environments

SKILL

AI Engineering & Machine Learning

Python, PyTorch, TensorFlow, Scikit-learn, Hugging Face, NLP, LLMs, Prompt Engineering, Retrieval-Augmented Generation (RAG), Computer Vision, Model Training & Evaluation

Cloud & MLOps

AWS (EC2, S3, IAM, Elastic Beanstalk, CloudWatch), Docker, CI/CD (GitHub Actions), Infrastructure as Code, Model Deployment, API Monitoring, Auto-scaling

Backend & Software Engineering

Python, Java, Flask, FastAPI, REST APIs, Object-Oriented Programming (OOP), Linux, Git, Backend Development

Data Science & Data Processing

NumPy, Pandas, SciPy, Feature Engineering, Data Preprocessing, Tensorflow

Databases & Vector Search

SQL, MySQL, FAISS, ChromaDB

Monitoring, Testing & Tools

CloudWatch, Prometheus, Grafana, pytest, unittest, Jupyter Notebook, Matplotlib

PUBLICATIONS

02.2025

[Early detection of dyslexia Using Multimodal Analysis](#), , INCOFT

12.2023

[WeSAFE : Enhancing Human Security Mobile Application](#) , IJIRCCE

SPRACHEN

English: C1 - Fluent

German: A2 (Currently pursuing)