

GARIMA SWAMI

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EDUCATION

Brandenburg University of Technology Cottbus-Senftenberg, Germany Oct 2025 – Present

M.S. in Artificial Intelligence

Relevant Coursework: Artificial Intelligence, Learning in real and virtual humans, Explainable Machine Learning, Practical Lab (Braitenberg Vehicles)

M.S. Ramaiah University of Applied Sciences, Bengaluru, India

Nov 2021 – Jun 2024

B.S. in Computer Science | GPA: 1.9/4.0

Thesis: Reliability Software for Calculating FMECA for Spacecraft

Core Modules: Machine Learning, Artificial Neural Networks, Data Structures & Algorithms, Probability & Statistics, Database Systems

TECHNICAL SKILLS

Programming - Python, JavaScript, Java, MATLAB, HTML, CSS

Core Machine Learning - PyTorch, scikit-learn, NumPy, Pandas, SciPy, Hugging Face Transformers

LLMs & Generative AI - RAG pipelines, Prompt Engineering, Evaluation Frameworks, Hugging Face Transformers

Computer Vision & Multimodal ML - OpenCV, MediaPipe, Librosa, FFmpeg

Backend & ML APIs - MLOps & Deployment - FastAPI, REST APIs, OpenAPI (Swagger)

MLOps & Deployment - Docker, Git, GitHub, Linux, Conda, AWS SageMaker, Azure (Foundations)

Databases & Data Engineering - SQL, MySQL, PostgreSQL

Data Visualization & Analysis - Matplotlib, Seaborn, Jupyter Notebook

Certifications: [Advanced Learning Algorithms](#), [Supervised Machine Learning](#), [Unsupervised Learning](#), [Recommenders](#), [Reinforcement Learning](#), [AI for Beginners](#), [Data Science and Analytics](#).

EXPERIENCE

Coding Pro | Bengaluru, India

July 2024 - April 2025

Software Developer

- Contributed to the development of AI-enabled web and application interfaces for fully AI-Enabled AI-Campus.
- Supported enterprise Copilot projects for clients across multiple domains, including UNO Bank, assisting in AI feature adaptation and use-case research, improving workflow efficiency by ~25%.
- Conducted exploratory research on Large Language Models (LLMs) and competitor AI products to assess feasibility.

Indian Space Research Organisation (ISRO) | Bengaluru, India

Feb 2024 – Jun 2024

Software Developer, Project Trainee

- Designed and developed reliability analysis software to automate Failure Modes, Effects, and Criticality Analysis (FMECA) for satellite mechanisms, reducing manual analysis effort by ~40%.
- Implemented computational algorithms to model satellite subsystems and component interactions, improving accuracy and consistency of FMECA reports by ~20–25%.
- Built a predictive failure simulation model and designed a structured master parts library, reducing FMECA setup time for new spacecraft projects by ~35% and accelerating iterative risk assessment cycles.

Municipal Corporation of Delhi | Delhi, India

June 2023 – Aug 2023

Full Stack Intern

- Worked as frontend developer on multiple websites and created a database for multiple waste clearing surveys to evaluate the most affected places.
- Gained experience in developing smart urban solutions for efficient waste management by utilizing Java, IoT, geotagging, GIS.

PROJECTS | [GITHUB](#)

AI Interview Coach – Full-Stack FastAPI & React System with NLP and Transformer Models

AI-Powered Push-Up Trainer - Computer Vision Fitness Assistant

Automated Job Market Intelligence System – end-to-end data pipeline using web scraping and filtering

Real-Time Hand Gesture Recognition – computer vision system using MediaPipe and OpenCV

Behavior-Based Autonomous Agent Simulation – Using Braitenberg Vehicles

PUBLICATIONS

- [Early Detection of Dyslexia Using Multimodal Analysis, INCOFT, 2025](#)
- [WeSafe: Enhancing Human Security Mobile Application, IJIRCCE, 2023](#)