

GARIMA SWAMI

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EDUCATION

Brandenburg University of Technology Cottbus-Senftenberg , Germany <i>M.S. in Artificial Intelligence</i>	Oct 2025 – Present
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 <i>B.S. in Computer Science</i> GPA: 1.9/4.0	Nov 2021 – Jun 2024
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 Software Developer	July 2024 - April 2025
<ul style="list-style-type: none">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 Software Developer, Project Trainee	Feb 2024 – Jun 2024
<ul style="list-style-type: none">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 Full Stack Intern	
<ul style="list-style-type: none">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](#)