NANDAKRISHNAN RAJEEV

Master's student in Artificial Intelligence

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Experiences

Production Test and Validation — **04/2024 -08/2024**

BMW AG, Regensburg

- Spearheaded with team members to streamline production processes, applying lean manufacturing principles to enhance efficiency and reduce waste in Supply Chain.
- Conducted quality inspections on finished products, identifying defects and working with the quality control team to address and resolve issues(end-to-end testing and unit testing).

Intern, Workstudent, Master Thesis — **02/2025- present**

Maschinenfabrik Reinhausen, Thüringen

- Developed and deployed a comprehensive test automation framework for Power Electronics converters, integrating CI/CD pipelines with Jira, which decreased testing cycles by 40% and improved release confidence(Python,C++)
- Engineered and delivered a full-stack PROFINET, SCADA connectivity solution leveraging HiL system and Beckoff TwinCAT for STATCOM project.

Education

Master of Engineering in Artificial Intelligence in Digital Production

Technische Hochschule Deggendorf, Campus Cham, Deutschland

Course Content: Artificial Intelligence, Machine Learning, Data Science, Tableau, Big Data, LLM, AI Agents, NLP.
Master Thesis: Agentic AI framework for Enterprise(doing under Centre For Artificial intelligence)

2023 - 2025

Bachelor of Technology in Electronics and Communication

Model Engineering College, Kochi, India

Bachelor's Thesis: Adaptive Beamforming with MVDR (Minimum Variance Distortionless Response)
Academic Award: Prime Minister's Scholarship of India

2018-2022

Project

Adaptive AI Agent for LLM Optimization on Edge Devices

- Built a prototype GenAI agent to manage LLM resource usage under constrained edge hardware.
- Used prompt routing and lightweight model switching (DistilGPT2 vs GPT-J) to balance response quality vs latency.
- Deployed as a microservice using Docker; ran latency profiling on AWS Lambda and simulated Raspberry Pi 5.
- Technologies: Hugging Face Transformers, PyTorch, RLlib, Docker, AWS Lambda

2025

Machine learning and logistic regression for error detection in heavy trucks

- Designed and implemented a machine learning pipeline for logistic regression and anomaly detection.
- Deployed models on an embedded device, ensuring efficient integration with existing vehicle systems.
- Technologies Used: LLMs, Scikit-learn, EDGE deployment.

2024

Achievements

- Participation in Intensive Computer Science Research in the Renowned **CERN Summer Student Programme in Germany**
- I**nternational Conference on Machine Learning and Cybernetics in the Netherlands**.
- Participant at **Vienna UP 2024 in Austria**, Contributing to Innovative Solutions and Collaborative Initiatives.
- Engagement as a Global Volunteer with **Girl Up, a UN Program** Advocating for Gender Equality and Empowering Young Women Worldwide.
- Promoting Student Engagement and Collaboration Through GitHub's Educational Platform as a **GitHub Campus Advisor**.

Skills

- **Programming Languages** : Python, C++, LaTeX, LTSpice, MATLAB, Simulink, LabVIEW
- **AI/ML**: Python- RAG, LLM Optimization, Reinforcement Learning, PyTorch, TensorFlow, NLP
- **Deployment Tools:** Docker, AWS Lambda, Git, SageMaker, Hugging Face, Linux, Raspberry Pi
- **Operating System**: Linux,Windows
- **Office-Tools**: MS Office Suite, Excel, Jira, Confluence, Power BI, Tableau
- **Protocols:** PROFINET, TCP/IP, SPC, Modbus, SCADA
- **Class B Driver's License:** Authorized to Drive Vehicles up to 3.5 Tons.

Languages

- **English: C1**
- **German:B2**
- **Hindi:** Fluent in Speaking and Writing
- **Malayalam:** Native Language