



VISHAKH CHERUPARAMBATH

Looking for a master thesis in the field of AI which demands the best of my personal ability in terms of technical and analytical skills to contribute to the growth of organization.

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Address: **Bäumenstr. 4, 90762 Fürth**
Born on 27.06.1997 in Kerala, India

LANGUAGES

- | | | |
|------------|---|-----------------|
| 1. English | - | Fluent C1 |
| 2. German | - | Intermediate B1 |

EDUCATION

1. Masters in Electromobility-ACES (2022 - present)
Friedrich-Alexander-Universität Erlangen
Major: Artificial Intelligence
Key elements: Machine Learning, Pattern Recognition, Data Science, Autonomous systems

2. Bachelors in Mechanical Engineering (2015 - 2019)
APJ Abdul Kalam Technological University, Kerala, India

DIGITAL SKILLS

C++, Python, HTML, CSS, JavaScript, Bash

Power Apps, SQL, Azure AI Foundry, GIT, GitHub, Gitlab, Confluence, AI Agents, MS Office

Azure AI Foundry tools, Llama Index, Gpt 4o, LaTeX, Linux, ROS 2, Rviz, YOLO v7, Faster RCNN, PyTorch, Pandas, Tensorflow

INTEREST

1. Automotive Enthusiast
2. Travel Blog
3. Music
4. Photography

WORK EXPERIENCE

Werkstudent Automation

(09/2025 - Present)

EOS GmbH, Krailling

- Building scalable, automated workflows, and data integration.
- Bringing adoption of agentic AI solutions, RPA, and RAG pipeline.

Werkstudent AI and Process Automation

(07/2024 - 05/2025)

Siemens Mobility GmbH, Erlangen

- Developed VBA macros to automate repetitive tasks for process efficiency.
- Explored multi-agent LLM architectures from SiemensGPT to build use case bots for configuration management team.
- Created and deployed Power BI kanban dashboard for rolling stock project insight using effective semantic models in SharePoint.
- Contributed to SAP GUI scripting, managed databases using SQL, and snowflake to support AI-powered applications.
- Utilized UiPath, Power Automate for dataflow automation.

Apprenticeship - Project Management

(08/2020 - 09/2021)

Hindustan Aeronautics Limited, Bangalore

- Managed product database of 11 assembly modules using IFS ERP.
- Assigned job card, ticket and documented process workflow for engineering, and MRO.
- Prepared requirements, data pre-processing, and build interactive dashboards for workflow analysis and reporting.

Internship

(06/2016 - 07/2016)

FACT, India

- Process planning, data analysis, database management, and documentation.

ACADEMIC PROJECTS

Road Lane Tracking and Object Detection

Estimated drivable space using output of semantic segmentation neural network with RANSAC plane fitting, detection and filtering of lanes and obstacles using OpenCV, and computed minimum distance to impact by fusing depth and 2D object detections.

Project Thesis - Autonomous Mobile Robots in Intralogistics (FAPS LAB, Erlangen)

Developed and implemented algorithms for robotic applications with optimized gesture recognition & behaviour tree models. Integrated multi-object detection model using ZED 2i stereo camera API and created comprehensive user test cases and performed qualitative analysis.

dsGPT - AI Assistant with Telegram Bot

Built a Telegram AI assistant using a local LLM (TinyLlama model) with LangChain-inspired message routing and GPU-accelerated inference. Enabled real-time user interaction and deployed end-to-end using Python. Utilized telegram bot API keys to integrate bot setup.

Smart Quality Monitoring in Industry Automation

Developed SVM and CNN models for electric motor fault classification, achieving 96% test accuracy. Improved CNN performance by 12% via hyperparameter tuning and data augmentation.