



VISHAKH CHERUPARAMBATH

Looking for an opportunity to pursue a master's thesis in AI and data engineering that utilizes my best analytical talents for the development of the organization.

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Address: Bäumenstraße 4, 90762 Fürth
Born on 27.06.1997 in Kerala, India

EDUCATION

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

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

LANGUAGES

- English** - Fluent C1
- German** - Intermediate B1
- Malayalam** - Mother Tongue

SKILLS

C++, Python, SQL, HTML, CSS, JavaScript, Bash
Copilot Studio, Power Apps, SQL, GIT, GitHub, Gitlab, Confluence, Power BI, MS Office

INTEREST

- Automotive Enthusiast
- Travel Blog
- Music
- Photography

WORK EXPERIENCE

Working Student Automation and Data Engineering
(09/2025 - Present) *EOS GmbH, Krailling*

- Designed and deployed end-to-end production ready bots using power automate, and Blue Prism RPA solutions.
- Created AI agents for business use cases, and for intelligent decision-making capabilities using data analytics tools.
- Built ETL pipelines and ML models using SQL and Python to enable efficient data ingestion, transformation, and processing in Databricks.

Working Student AI and Process Automation
(07/2024 - 05/2025) *Siemens Mobility GmbH, Erlangen*

- Developed VBA programs to automate repetitive tasks within SAP P22 module of rolling stock projects.
- Explored multiple LLM architectures from SiemensGPT to build use case bots for configuration management team.
- Built and integrated Power BI Kanban dashboard leveraging SQL queries to deliver actionable rolling stock project insights.
- Utilized UiPath, Power Automate for workflow automation.

Apprenticeship Project Management (Helicopter Division)
(08/2020 - 09/2021) *Hindustan Aeronautics Limited, India*

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

Internship
(06/2016 - 07/2016) *FACT, India*

- Process analysis, database management, and documentation.

ACADEMIC PROJECTS

Research Assistant Agent - Local RAG Pipeline Using DeepSeek
Developed an interactive document-query system using LangChain, Ollama, DeepSeek-r1, and Streamlit, enabling real-time Q&A over uploaded research PDFs.

Project Thesis - Autonomous Mobile Robots in Intralogistics (Institute FAPS, 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.

dsssGPT - AI Assistant with Telegram Bot
Built a Telegram AI assistant using TinyLlama model from hugging face 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.