



PAVAN KUMAR

PERSONAL DATA

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Personal website:
<https://pavan-aiml.github.io/pk/>

GitHub:
<https://github.com/Pavan-AIML>

SKILLS

Languages:
Python, MATLAB

Frameworks & Libraries:
PyTorch, TensorFlow, Hugging Face, LangChain, OpenCV, Pandas, NumPy, Matplotlib, Seaborn, NLTK, spaCy, Streamlit, FastAPI, Scikit-learn

Technologies & Tools:
Deep-Learning, NLP, Computer Vision, PowerBI, Excel, Docker, Git, Kubernetes, Azure Cloud, SQL, Pinecone, Machine Learning

Project Management:
Scrum, Kanban

LANGUAGE SKILLS

German (A1)
English (Fluent)
Hindi (Mother tongue)

PARTICIPATION

TUM AI Makethon2024 [\[Link\]](#)

HOBBIES AND INTERESTS

Calisthenics, cooking.

WORK EXPERIENCE

01/09/2025 – Current, Munich, Germany

Working student Reinsurance Accounting, Munich RE

- FSRI data analysis using python, MGAs data analysis and processes automation

15/06/2025 – 31/08/2025, Munich, Germany

Working student as an AI-Engineer, MERMEC

- Building multi agent system, agent orchestration, RAG pipeline, data parsing, CI/CD, Git branching and model deployment to production

01/02/2025 – 31/03/2025, Munich, Germany

Internship as an AI-Engineer, databAlse

- Developed a custom RAG-based AI application and web scraper and performed QLoRA based LLM fine-tuning

01/06/2024 – 30/09/2024, Munich, Germany

Working student as a Data Analyst and Front-End Developer, BMW

- Built a Python based ETL pipeline and a Streamlit dashboard

15/10/2023 – 14/04/2024, Oberkochen, Germany

Internship in Deep Learning, ZEISS

- Built a multi-degree polynomial regression model from scratch. Trained different AI model architectures and deployed the final model to production

19/06/2023 – 18/08/2023, Munich, Germany

Internship in Machine Learning and Deep Learning, Max Planck

- Built a data-analysis pipeline for spectral image dataset
- Trained a CNN to correctly identify the incorrect predictions by the pipeline

20/08/2022 – 17/02/2023, Munich, Germany

Working student as Data Analyst, Infineon Technologies

- Analyzed internal training data using Python (pandas) and Excel
- Built interactive PowerBI dashboards to enhance data monitoring and reporting

01/02/2020 – 30/09/2020, Pune, India

Project Manager, Full-time at HomeLane

- Planned and scheduled projects, managed sales and marketing activities

PROJECTS

- Master's thesis deep Neural Process network building [\[Link\]](#)
- Building and deploying a Chatbot to assist HR team for the recruitment process using OpenAI model [\[Link\]](#)
- Dexterous Antagonistic Robotic Finger: Finding optimal path using Optimal Control [\[Link\]](#)

EDUCATION AND TRAINING

01/10/2021 – Present, Munich, Germany

- M.Sc. Mathematics in Science and Engineering, Technical University of Munich

14/02/2013 – 01/09/2017, Vellore, India

- B.Tech. Civil Engineering, Vellore Institute of Technology

- Related University courses:

Deep Reinforcement Learning, Optimization, Computer Vision (Multiple view geometry), Advanced Computer Vision, Deep Learning, Machine Learning