



## PAVAN KUMAR

### PERSONAL DATA

#### Address:

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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

### LANGUAGE SKILLS

German (A1)

English (Fluent)

Hindi (Mother tongue)

### WORK EXPERIENCE

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

#### Internship as an AI-Engineer, databAise.

- Developed a web scraping agent to extract the dynamic website content.
- Optimized mathematical models using PuLP and the Gurobi solver.
- Built custom RAG-based AI applications.

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

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

- Built Python ETL pipelines (Pandas, PySpark, Airflow) and a Streamlit dashboard.

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

#### Internship in Deep Learning, Zeiss.

- Data analysis and visualization in Python
- Built a multi-degree polynomial regression model from scratch for data interpolation
- Trained different AI model architectures in PyTorch to interpolate 3d point cloud data
- Used Optuna to finetune the process and network architecture

**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 wrong 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

### PROJECTS

- Building and deploying a Chatbot to assist HR team for the recruitment process using OpenAI model [\[Link\]](#)
- Object detection by sliding window and non-maximum suppression [\[Link\]](#)
- Dexterous Antagonistic Robotic Finger: Finding optimal path using Optimal Control [\[Link\]](#)
- Real and fake news classifier using NLP techniques [\[Link\]](#)

### 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:**

Foundations of Data Analysis, Optimization, Computer Vision (Multiple view geometry), Advanced Computer Vision, Deep Learning, Machine Learning

### HOBBIES AND INTERESTS

- Calisthenics, cooking.
- Participation in TUM AI Makethon2024 [\[Link\]](#)