



PAVAN KUMAR

PERSONAL DATA

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SKILLS

Languages:
Python, MATLAB

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

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

LANGUAGE SKILLS

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

WORK EXPERIENCE

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

Internship as an AI-Engineer, databAise.

- Developed a web scraping agent using Streamlit, Selenium, BeautifulSoup & LLM to extract and interact with dynamic web content.
- Optimized university course scheduling through mathematical modeling with PuLP and solver Gurobi.
- Integrated custom data sources into applications by RAG also worked with multi agents.

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

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

- Developed an interactive dashboard with Excel and CSV file data import, filtering, and sorting features for efficient visualization using Python's Streamlit framework.

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

Internship in Deep Learning, Zeiss.

- Data analysis and visualization in Python.
- Building a multi degree polynomial regression model from scratch for data interpolation.
- Training of different AI model architectures in PyTorch to interpolate 3d point cloud data.
- Using tool Optuna to fine-tune the training process and network architecture.

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

Internship in Machine Learning and Deep Learning, Max-Planck.

- Building data-analysis pipeline for spectral image dataset.
- Training CNN to correctly identify the wrong predictions by the pipeline.

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

Working student as Data Analyst, Infineon Technologies.

- Analysis of the company's past internal trainings Excel file data using Python(pandas) and updating newly released training on the Infineon web page.

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

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

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 [\[Link\]](#)