

# AADITYA NEUPANE

94469 Deggendorf, Germany

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## EDUCATION

### BS in Artificial Intelligence

Expected Graduation - 2026

Technische Hochschule Deggendorf (THD), Deggendorf, Germany

**Course works:** ML, Computer Vision, Speech Recognition, Natural Language Processing, CNN, RNN, Transformers, LLM, Generative AI, Cloud computing, Data Structures & Algorithms, OS and Networks

## WORK/EXPERIENCES

### Student Research Assistant | THD | Deggendorf

Apr 2024 – Present

- Participated in AI and ML research projects.
- Experimented with diverse Transformation and Feature Extraction techniques on data collected from robots / edge devices.
- Engineered scalable MLOps pipeline for large scale Time Series Data.
- Developed CNN-based Computer vision models for Industrial Sorting Line prototype (eg. Fischertechnik Sorting Line)
- Documented and made Data Analysis and Model Performance Reports.

### Student Teaching Assistant | THD | Deggendorf

Oct 2024 - Present

- Coded in LaTeX to create documents, presentations and converted the existing documents to a LaTeX format.
- Collaborated with the teams of Professors and Students to enhance teaching materials.

## TECHNICAL SKILLS

- Python, OOP, OpenCV, TensorFlow, PyTorch, getML, Dask, Matplotlib, Pandas, Numpy, Scikit-learn, Nltk
- JavaScript, Express, React, Three.js
- CI/CD, GitHub, Gitlab, Docker, Azure DevOps
- C/C++, Micro-Python with Arduino, Esp32, Raspberry Pi
- HTML, CSS, Jupyter Notebook, Google Collab, Kaggle
- SQL, Postgresql, FastAPI
- R and R studio
- Linux (Ubuntu), PowerShell, Bash
- Hugging face, LangChain, Ollama, Finetuning LLMs

## LANGUAGES

- English: Full Professional Proficiency (C1)
- Nepali: Native speaker
- German: Limited Working Proficiency (A2)

## PROJECTS

- [3D Portfolio](#) | React, Three.js, Express, Next.js  
My Portfolio Project – <https://aadityaneupane.com>
- [Quality-assurance-with-AI-fischertechnik](#) | Tensorflow, TFlite, OpenCV  
Computer vision program for edge device (Fischertechnik Sorting Line)
- [Stroke Predictor](#) | Rasa, Streamlit, Html, CSS  
ML and NLU based Chatbot web app to predict user's chance of having a stroke
- [Chatbot for University Canteen](#) | Python, Express, Socket.io, Azure  
Chatbot for University Canteen based on the Weekly Canteen Menu.
- [Spam Filter](#) | Matplotlib, Pandas, Numpy, Scikit-learn, Nltk  
Naïve Bayes Classifier, a machine learning based classification method to filter Spam emails.
- [Anti Distraction Extension](#) | JavaScript  
Chrome Extension that Replaces Distractive videos on Youtube with a Motivational Phrase "Study hard".

## COMMUNITY INVOLVEMENT

Gesellschaft für Informatik, Member

Jan 2024 – Present

University Clubs: Chess, Swimming

Oct 2023 - Present