

Education

JKU, Bachelor of Science in Artificial Intelligence

October 2021 - Present

- Anticipated Graduation: July 2024
- Study Language: English
- relevant Courses: Numerical Optimization, **Machine Learning Un- / Supervised Techniques**, **Machine Learning Pattern Classification**, Mathematics for AI, Basic Methods of **Data Analysis**

Projects

Pixel Inpainting, *University Project*

Computer Vision

- Developed a **Convolutional Neural Network** for generating missing pixel values with an accuracy of 95% by training on a diverse data set and using Data augmentation methods like rotations

Bird Call Classifier, *University Group Project*

Pattern Classification

- Implemented a **Neural Network**, **Long Short-Term Memory** and **Random Forest** for predicting the correct bird per Audio Segment with an **F1-score** of 92%, using feature selection & post-processing
- Demonstrated exceptional **teamwork** and technical skills, resulting in a high performance on the challenge server, scoring 8,872 out of 11,500 possible points

Music Recommender, *University Project*

Recommender Systems

- Designed an accurate memory-based **ItemKNN Recommender System**, achieving a 94% accuracy of predictions by optimizing parameters to improve the accuracy of music recommendations.

Indoor Positioning System, *Own Project*

Location-based Services

- Created a real-time and accurate Indoor Positioning System, accurately predicts current location with a 91% accuracy. Utilized **Random Forest** algorithm for robust positioning performance.

Chat Bot, *Own Project*

Natural Language Processing

- Developed a self-hosted Llama2 API to power a Chatbot interface, ensuring fast response times & providing accurate answers, leveraging context-awareness for improved conversational capabilities
- Implemented various system prompts during testing to optimize the Chatbot's performance in delivering tailored responses for different purposes, enhancing user engagement and satisfaction

Experience

IT-Hotline, EMP-IT GmbH

March 2021 - October 2021

- Provided swift and efficient IT support to hospital personnel, managing a high volume of technical inquiries and troubleshooting requests amid the challenging demands of the COVID-19 pandemic
- **Collaborated** with the IT team to diagnose and resolve issues, ensuring uninterrupted technology support for the hospital's daily operations and patient care during the pandemic

Personal Summary

As an enthusiastic AI student, I am deeply committed to cutting-edge research and contributing to innovative projects. Collaboration is at the heart of my approach, valuing diverse perspectives and fostering a positive atmosphere through effective communication. With a strong bias for action, I fearlessly take initiative and embrace ambitious goals. My interests span across different disciplines, and curiosity drives my passion for staying updated with the latest advancements. I thrive on self-motivated learning, always seeking to broaden my horizons. Being part of a vibrant community and making meaningful contributions excite me as I embark on a journey of continuous growth and self-directed learning.