



APPLY NOW! 

Master's thesis

"Development of an intuitive Front End based on User Experience
Analysis for an AI Object Recognition System" m/f/d



What does a student do

at Scope Sorting?



You **boost** an **interdisciplinary team** and **work** with colleagues, who are **experts** in software engineering, data science, machine learning, mechanical engineering, mechatronics, and biology.

We develop an **AI-based optical recognition system** to improve plastics recycling. We have built a powerful back end, but **need your help** to bridge the gap to our users.

You and your team are **developing a product**, that will **solve the world-wide plastic waste problem** und **revolutionise** the **AI world**.

Something sounds new to you? No problem! Try out **new** and **exciting technologies**, **broaden your horizon** in meetings, and **advance yourself** and the team – all this **at Scope Sorting!**

Your profile and your tasks!



Your profile:

- Student of Machine Learning, Data Analytics, Software Engineering, or Media Computer Science
- Skills in Python and several libraries e.g., Flasks, Prometheus
- Willingness to learn
- Showing interest in AI projects

Your tasks:

- Design of a Front End and interconnect it with the Back End
- Create User Experience Analysis and Surveys
- Create Dashboard analysis with JSON files
- Write a manual, where we can understand what you have done

What do you get from us?



**CREATE YOUR OWN
WORK-STUDY BALANCE**



**BROADEN YOUR HORIZON,
WE LEARN FROM EACH OTHER**



**THINK BIG! WE LIKE
YOUR IDEA**



**WORK WITH AN
AWESOME TEAM**



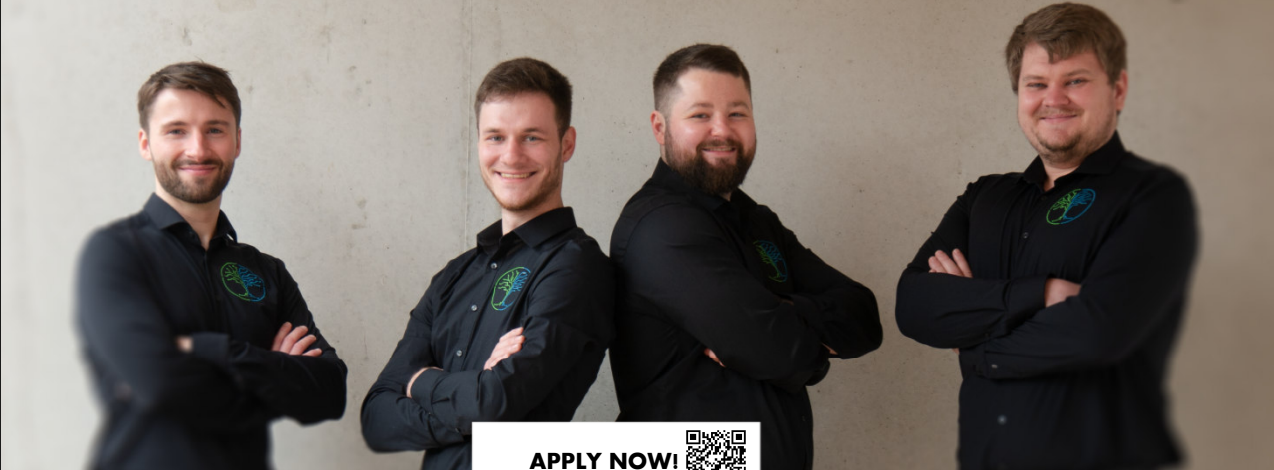
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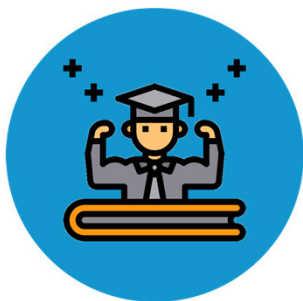
Master's thesis

"Optimization of an Optical Character Recognition System
for Recycling Symbols of Lightweight Packaging Objects" m/f/d



What does a student do

at Scope Sorting?



You **boost** an **interdisciplinary team** and **work** with colleagues, who are **experts** in software engineering, data science, machine learning, mechanical engineering, mechatronics, and biology.

Our **AI-based optical recognition system** can be leveraged to recognize meaningful symbols to **improve plastics recycling**. We detect symbols which provide additional information about the material type of an object.

You and your team are **developing a product**, that will **solve the world-wide plastic waste problem** und **revolutionise** the **AI world**.

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Your profile and your tasks!



Your profile:

- Student of Machine Learning, Data Analytics, Software Engineering, and Media Computer Science
- Skills in Python and several libraries e.g., Hugging face, Tesseract, and PyTorch
- Willingness to learn
- Showing interest in AI projects

Your tasks:

- Optimize our current OCR script
- Interface to optical recognition system
- Annotate and handle data for the training script
- Write a manual, where we can understand what you have done

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APPLY NOW! 

Master's thesis

"Statistical Analysis of Database Quality with regard to Query Frequency for a MongoDB application" m/f/d



What does a student do

at Scope Sorting?



You **boost** an **interdisciplinary team** and **work** with colleagues, who are **experts** in software engineering, data science, machine learning, mechanical engineering, mechatronics, and biology.

Our **AI-based optical recognition system** will be used in real-time to extract text data from labels and symbols of plastics packaging to **enrich the detection of objects** for waste sorting. Therefore, **we need your help** to optimize our database.

You and your team are **developing a product**, that will **solve the world-wide plastic waste problem** und **revolutionise the AI world**.

Something sounds new to you? No problem! Try out **new and exciting technologies**, **broaden your horizon** in meetings, and **advance yourself** and the team – all this **at Scope Sorting!**

Your profile and your tasks!



Your profile:

- Student of Machine Learning, Data Analytics, Software Engineering, and Media Computer Science
- Skills in Python
- Skills in NoSQL e.g., MongoDB
- Willingness to learn
- Showing interest in AI projects

Your tasks:

- Interface between Optical Character Recognition and NoSQL database
- Metric definition: Statistical evaluation of query diversity and frequency
- Imputation for empty columns in databases
- Quality control of database entries
- Write a manual, where we can understand what you have done

What do you get from us?



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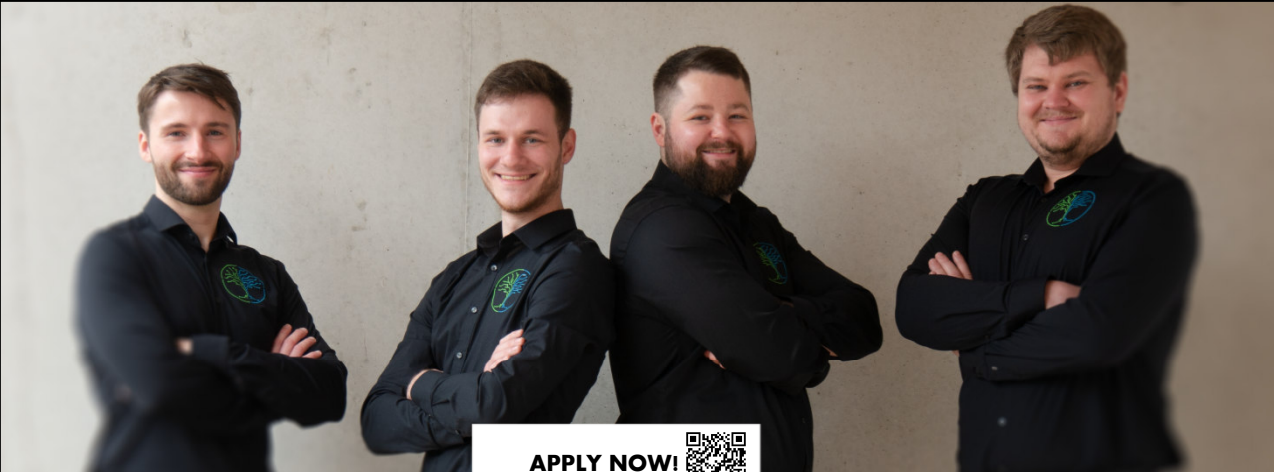
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Master's thesis

"Identifying and Applying Six Sigma Quality Management Methods for Deep Learning Systems" m/f/d



What does a student do at Scope Sorting?



You **boost** an **interdisciplinary team** and **work** with colleagues, who are **experts** in software engineering, data science, machine learning, mechanical engineering, mechatronics, and biology.

Our **AI-based object recognition system** can be qualitatively measured by parameters of computer science. Hence, we need a **quality management method**, which **you can surely supply**.

You and your team are **developing a product**, that will **solve the world-wide plastic waste problem** und **revolutionise the AI world**.

Something sounds new to you? No problem! Try out **new and exciting technologies**, **broaden your horizon** in meetings, and **advance yourself** and the team – all this **at Scope Sorting!**

Your profile and your tasks!



Your profile:

- Student of Mechatronics, Mechanical Engineering, Optical Engineering, Machine Learning, Data Analytics, Software Engineering, and Media Computer Science
- Skills in Python
- Willingness to learn
- Showing interest in AI projects

Your tasks:

- Quality control of active learning and test dataset
- Monitoring of F-score, recall and accuracy value, and loss function
- Evaluation of the annotated dataset
- Write a manual, where we can understand what you have done

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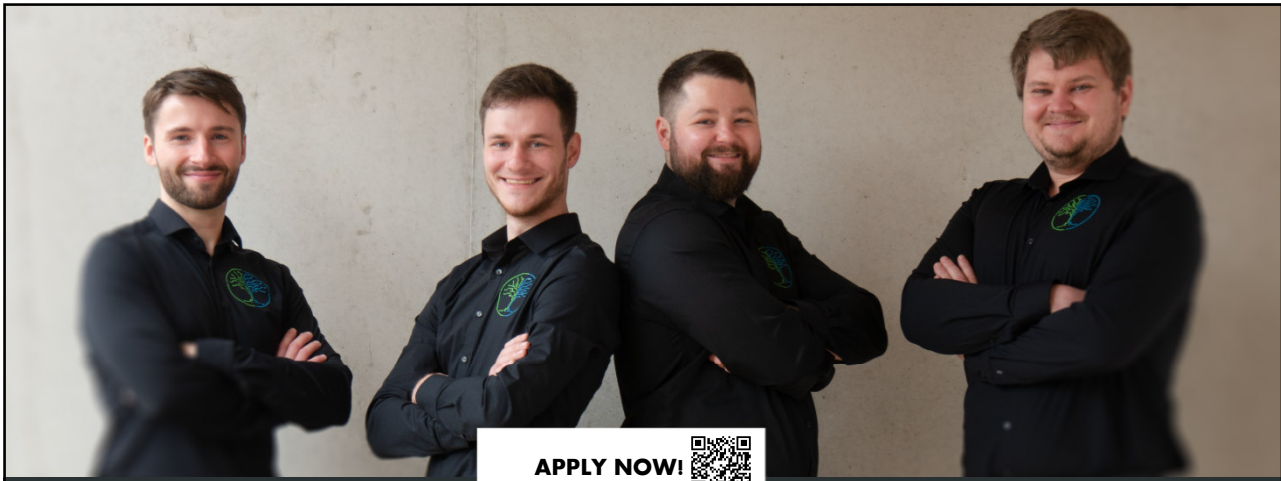
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Bachelor's thesis

"Validation of an Automatic RGB Camera Calibration System" m/f/d



What does a student do at Scope Sorting?



You **boost** an **interdisciplinary team** and **work** with colleagues, who are **experts** in software engineering, data science, machine learning, mechanical engineering, mechatronics, and biology.

We love to work with **RGB cameras**, but sometimes it is quite difficult to calibrate them manually. Thus, we need **an automatic RGB camera calibration tool**. We think **you have the right idea!**

You and your team are **developing a product**, that will **solve the world-wide plastic waste problem** und **revolutionise the AI world**.

Something sounds new to you? No problem! Try out **new and exciting technologies**, **broaden your horizon** in meetings, and **advance yourself** and the team – all this **at Scope Sorting!**

Your profile and your tasks!



Your profile:

- Student of Mechatronics, Mechanical Engineering, Optical Engineering, Machine Learning, Data Analytics, Software Engineering, and Media Computer Science
- Skills in Python
- Knowledge of using a microcontroller
- Willingness to learn
- Showing interest in AI projects

Your tasks:

- Design of a model with a Raspberry Pi
- Adapt your model into our product
- Create a safety solution for lens
- Write a manual, where we can understand what you have done

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