

# Master Thesis - Tracking Out-of-Distribution Objects - AI Lab Berlin - REF51848L

## Your tasks

We are looking for a master's student (m/f/diverse) to join our AI Lab team in Berlin **as soon as possible** (preferably starting in May 2024) for a 6-months master thesis.

This role is centered on the innovative field of Tracking Out-of-Distribution Objects. Your primary focus will be on researching and developing methods to detect and track previously unknown objects in driving scenarios for autonomous driving use case. This is an on-site position, offering hands-on experience in the heart of Berlin. You will work in a dedicated, innovative team of Continental employees (m/f/diverse) and Ph.D. students (m/f/diverse).

Your tasks will consist of the following:

- Collaborate with our project team on the research of State-of-the-Art (SOTA) solutions for OoD segmentation models and tracking algorithms
- Implement OoD tracking methods for segmentation on existing pipeline on autonomous driving datasets
- Compare the results against existing tracking methods and segmentation models
- Evaluate the performance of the developed solution through rigorous experiments

## Your profile

- Currently pursuing a Master's program in computer science, machine learning, artificial intelligence (AI), computer vision, robotics or a related fields of study
- Familiarity with computer vision techniques, object tracking, and deep learning models
- Advanced programming skills in Python
- Experience with Docker, PyTorch, OOP and Git
- Confident handling of MS Office-programs
- Fluent English language skills (written & spoken)
- Good presentation, oral and written communication skills highly desirable
- Ability to effectively articulate technical challenges and solutions in the area of autonomous driving
- Independent, creative, and proactive working style
- Valuable teamplayer

Please remember to attach your current certificate of enrollment and also your current transcripts of records and an extract of certificate for a mandatory internship. Those documents are mandatory for processing your application. If required, please submit your valid residence permit



Job ID  
**REF51848L**

Field of work  
**Engineering**

Location  
**Berlin**

Contact  
**Jana Janotta**

Legal Entity  
**co-pace GmbH**

as well as your work permit including the additional sheet.

Applications from severely handicapped people are welcome.

## **Our offer**

- Our group offers a nice, friendly, and inspiring environment for performing research
- Support and close collaboration with experienced Research Scientists
- High-performance GPU infrastructure to conduct excellent work
- Excellent location in downtown Berlin at "co-working space AI Campus"
- Ability to join journal clubs, networking events and technical exchanges on the campus
- Together with our team, you will have the chance to apply and enhance your skills and let our robotics applications come alive in Berlin
- You would like to learn more about our additional services? [Click here.](#)

Ready to drive with Continental? Take the first step and fill in the online application.

## **About us**

Continental develops pioneering technologies and services for sustainable and connected mobility of people and their goods. Founded in 1871, the technology company offers safe, efficient, intelligent and affordable solutions for vehicles, machines, traffic and transportation. In 2022, Continental generated sales of €39.4 billion and currently employs around 200,000 people in 57 countries and markets.