Master Thesis – Foundational Multimodal Models for Autonomous Driving - AI Lab Berlin - REF52575Z

Your tasks
For our AI Lab in Berlin we are looking for a student (m/f/diverse) for a 6 months master thesis starting as soon as possible.

We seek a passionate Master's student (m/f/diverse) to explore the cutting-edge field of foundational multimodal models. Your mission will be to research and develop innovative methods for fine-tuning these models, aiming for automatic and interpretable labeling within autonomous driving datasets. This is an onsite 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 on researching State-of-the-Art (SOTA) solutions in foundational multimodal models
- Develop and implement these models for labeling selected autonomous driving datasets
- Fine-tune mechanisms to enhance method performance
- Conduct thorough experiments to evaluate solution effectiveness
- Collaborate with project stakeholders and contribute to the publication of the curated dataset and method in a high-ranking conference

Your profile

- Master students in the field of computer science, machine learning, AI, computer vision, robotics or a related field of study
- Familiarity with computer vision techniques, multimodal models and deep learning models
- Advanced programming skills in Python
- Experience with Docker, PyTorch, OOP and Git is advantageous
- Fluent English language skills, written and spoken (Ability to effectively articulate technical challenges and solutions in the area of autonomous driving)
- Independent, creative and proactive working style
- Must be able to work effectively in a team environment
- Good presentation, oral and written communication skills highly desirable

Please remember to upload your current certificate of enrollment as well as your current transcript of grades and an excerpt from the current study regulations regarding completion of a thesis, as these are mandatory for processing your application. If required, please submit your valid residence permit 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.