Perception Simulation Machine Learning Internship

Description

About the Company

At Torc, we have always believed that autonomous vehicle technology will transform how we travel, move freight, and do business.

A leader in autonomous driving since 2007, Torc has spent over a decade commercializing our solutions with experienced partners. [Now a part of the Daimler family](), we are focused solely on developing software for automated trucks to transform how the world moves freight.

Join us and catapult your career with the company that helped pioneer autonomous technology, and the first AV software company with the vision to partner directly with a truck manufacturer.

What you will do:

We are seeking a talented and driven Intern to join our team in Stuttgart and support our efforts to investigate a data driven failure analysis model that allows us to cluster and trace back errors to scene attributes. To this end, in this internship you will investigate Vision Language Models (VLMs) to tag scenes based on images automatically and use those tags to trace back to performance errors. This tagging will not only help us as a Perception V&V team but is also a viable pseudo labeling approach for our machine learning teams.

Candidates are expected to work 40 hours per week for the duration of the internship.

They must be willing to travel to or be in Stuttgart, Germany for the duration of the internship. The position is hybrid (partially working from office and partially working from home).

Torc Internships provide a fantastic way for you to hone your skills and see what life at Torc is all about. Our goal is to enable interns (m/f/d) to become full-time Torc's.

Responsibilities:

- Work with the Perception V&V team to develop a suitable VLM approach to facilitate the event tagging from images
- Implement and fine-tune the models using internal datasets and generate results
- Analyze results by comparing to manually labeled data

What you'll need to succeed:

- Full-time student (m/f/d) pursuing an undergraduate or graduate degree in computer science, computer engineering or related field
- Knowledge of Linux platforms
- Knowledge of dashboarding tools and libraries
- Software development experience
- Familiarity with one or more high-level languages: Python, C/C++

Hiring organization
Candidate-1st

Employment Type
Full-time

Beginning of employment
asap

Job Location
Stuttgart, Baden-Württemberg, Germany

Working Hours
40

Base Salary
euro EUR 55K - 120K *

Date posted
May 23, 2024

- Enthusiasm to take on new challenges and learn new skills
- Willingness to work in an international team

Bonus Points!

- Familiarity with Cloud providers (AWS, GCP, Azure)
- Experience in self-driving car industry
- Experience with simulations

At Torc, we're committed to building a diverse and inclusive workplace. We celebrate the uniqueness of our Torc'rs and do not discriminate based on race, religion, color, national origin, gender (including pregnancy, childbirth, or related medical conditions), sexual orientation, gender identity, gender expression, age, veteran status, or disabilities.

Even if you don't meet 100% of the qualifications listed for this opportunity, we encourage you to apply. We're always looking for those that are hungry, humble, and people smart and your unique experience may be a great fit for this role or others.

How the process will look like

Your teammates will gather all requirements within our organization. Then, once priority has been discussed, you will decide as a team on the best solutions and architecture to meet these needs. In continuous increments and continuous communication between the team and stakeholders, you're part of making data play an even more important (and understood) part withing Brand New Day.

Job Benefits

EUR 55K – 120K *