Bachelor / Master Thesis - Large Language Model

Description

- The Intelligent Vehicles (IV)-Lab is looking for a Bachelor / Master Thesis Student (m/f/d) to support research in the field of autonomous driving starting in the coming winter semester.
- Large Language Models (LLM), such as GPT, hold promising contributions to the work in research. We would like to implement our own LLM in our Laboratory with your help.

Your Project

- Experiment with different LLM architectures in terms of efficiency and performance (see Figure 1)
- Examine the implications of training an LLM from scratch vs. fine-tuning a pre-trained model
- Prepare the LLM for its use in later research projects, like controlling an AgileX robot with natural language (see Figure 2)
- Goal: Create a secure and private LLM that can be used in combination with other research projects

Your Profile

- Willingness to learn and interest in the topic of autonomous driving
- Ability to work independently, conscientiously, and accurately
- Previous experience with Python is required
- Previous experiences with Linux, Bash, and git are a plus

What we offer

- Gaining first experiences in one of the most promising technical fields of modern times
- Supervision and close cooperation with a PhD candidate in the corresponding field
- Optional extension to an SHK-position with flat-rate payment

Does this appeal to you? Are you interested in the field of autonomous driving? Then reach out to us via mail and send a short introduction, your current grade report, and a cv with a photo.