JOIN US NOW – turn invention into innovation!

The AI & Data Science Team is a research group of the Institute for Driver Assistance and Connected Mobility (IFM), as part of the Research Center Allgäu at the University of Applied Sciences Kempten. Our research focuses on methods for advanced driver assistance systems and autonomous driving.

In order to realize a novel approach to generate maps for driving simulators from real-world data sources, we need your support. You build on existing datasets and trends in deep learning and work closely with our team to create a unique approach for driving map generation. The generated maps can be used in various simulators for advanced driver assistance systems and autonomous driving and, in a broader sense, as the basis of virtual worlds for games or other applications.

Master's Degree Candidate (m/w/d)
Deep-Learning-Based Conditional Map Generation

Your Tasks
- comprehensive literature research
- creating a suitable benchmark dataset
- selection of metrics for comparison with other approaches
- design and implementation of a deep learning model
- training and validation of the model

You
- are studying for a master's degree in computer science or related fields
- have a high interest in scientific work
- convince through a structured, analytical, and independent working style
- can implement and test deep learning models
- have good programming skills in Python
- have experience with deep learning frameworks (PyTorch and/or Tensorflow)
- have a solid knowledge of deep learning and machine learning

We
- offer you the opportunity to participate in research projects in the field of deep learning
- offer you to publish the results as a research paper at conferences or in journals under our supervision
- give you a comprehensive insight into our work
- give you an individual supervisor
- offer the opportunity to do a PhD in our research lab after a very successful master thesis

Interested? We look forward to hearing from you. If you want to apply directly or have any questions, contact us.

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