Student assistant - Machine Learning Applications (all genders)

TECHNISCHE UNIVERSITÄT DARMSTADT

Embedded Systems and Applications Group

The Embedded Systems and Applications Group (ESA) at TU Darmstadt has an open position for a student assistant (all genders). ESA is looking for a student who will support the team in a new project by developing Machine Learning (ML) solutions for practically relevant applications as benchmarks for acceleration toolflows on multiple platforms (CPU, GPU, FPGA).

The ideal candidate should meet the following requirements:

- Strong background in Machine Learning, preferably with knowledge in probabilistic (graphical) models.

- Experience with Sum-Product Networks (SPN) is a big plus.

- Very good programming skills in Python and relevant ML- and numerical frameworks, e.g. pandas, numpy.

- Good familarity with version control systems (e.g., git) and Unix systems.

- Communication skills in English.

Your tasks will be the following:

- Literature research of potential benchmark applications.

- Reproduction of published research results on ML applications.

- Design and learning of probabilistic models for novel applications with given data-sets.

We offer:

- A great opportunity to transfer knowledge acquired in lectures to real applications!

- The chance to contribute to a cutting-edge research project and open-source software!

- Participation in publications.

- Flexible working hours.

- The opportunity to follow up on the topic in a student thesis (bachelor-/master-thesis).

The number of hours per week/month is negotiable, the wage paid is the standard TU Darmstadt wage for student assistants (11.75€/h).

If you are interested in joining the team, describe your motivation and prior experience with ML/probabilistic models and send it to sommer@esa.tu-darmstadt.de, together with a short CV and an up-to-date record of grades (Tucan screenshot sufficient).