

PhD Student

(JOB ID: 180754BR)

AS ONE OF THE LEADING AUTOMOTIVE SUPPLIERS WORLDWIDE, WE DEVELOP PRODUCTS AND SOLUTIONS TO FULFILL PEOPLE'S DREAMS OF MOBILITY EVERY DAY. DRIVER SAFETY, COMFORT, SUSTAINABILITY, AND INDUSTRIALIZATION OF FUTURE TECHNOLOGY ARE JUST SOME OF OUR KEY FIELDS WHERE WE ALREADY MAKE A MEANINGFUL DIFFERENCE IN PEOPLE'S LIVES. KNOWING OUR INNOVATIONS HELP TO MAKE THE WORLD A BETTER AND SAFER PLACE IS WHAT DRIVES US.

JOB DESCRIPTION

As part of the central advance development for **artificial intelligence**, we are responsible for the development of innovative technologies to enable the application of AI for our products. You will work in a dedicated, innovative team consisting of Continental employees and students and prepare a research thesis with the aim of obtaining a doctorate.

Topic: Hybrid architectures for the long-term prediction traffic scenarios

Safe and comfortable driving behavior of autonomous vehicles requires anticipatory planning, i.e. planning that considers the possible and probable future evolution of an entire traffic scene. The basis for this is the estimation of a predictive state of the traffic situation that can reflect the complex interactions between traffic participants and their environment. Your goal is to develop hybrid architectures that allow to estimate such predictive states from a combination of observational data and domain knowledge and show their predictive power in a trajectory planning application. A second thesis will deal with the integration of normative domain knowledge such as traffic rules into such predictive algorithms. A close collaboration between these two topics is expected.

The work is part of the publicly funded research project "KI-Wissen".

QUALIFICATION

- Student of artificial intelligence, computer science, mathematics, physics, robotics or related field of study.
- Master thesis related to the topic of artificial intelligence
- Very good knowledge of artificial intelligence algorithms
- Knowledge of autonomous systems is desirable
- Interest in trying out new technological topics
- Independence and initiative
- Ability to work in a team

WHAT WE OFFER

- Possibility to receive a PhD
- Innovative Co-working space in Berlin AI campus
- Team spirit in Continental AI graduate program

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