Artifical Intelligence based development and computer-aided design (CAD) for battery electric vehicles

Interdisciplinary Project

Motivation:
At the Institute of Machine Elements we do research on drive systems and components. Therefore, we are interested in technologies in drive system development and are about to integrate latest artificial intelligence methods in the process of development and design.

Your task:
The goal of this IDP is to develop and implement a computer-aided design tool. You will develop methods for different machine element shapes and geometries that are used in modern automotive drivetrains and you will help to provide a machine learning interface for future designs.

Your profile:
- Highly interested in computer-aided design (CAD) and AI-methods
- Advanced Coding Skills
- Highly motivated and responsible
- Fluent in English or German