



TOPICS FOR BACHELOR/MASTER THESIS

ARTIFICIAL INTELLIGENCE FOR AUTOMOTIVE AND EMBEDDED SYSTEMS

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Task Definition :

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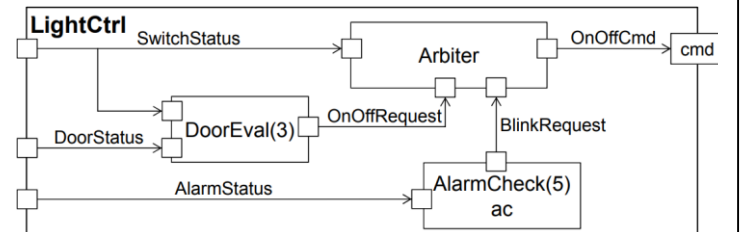
For further information of the concrete BA/MA thesis please make an appointment with Dr. E. Kusmenko or J. Ritz!

DEEP LEARNING



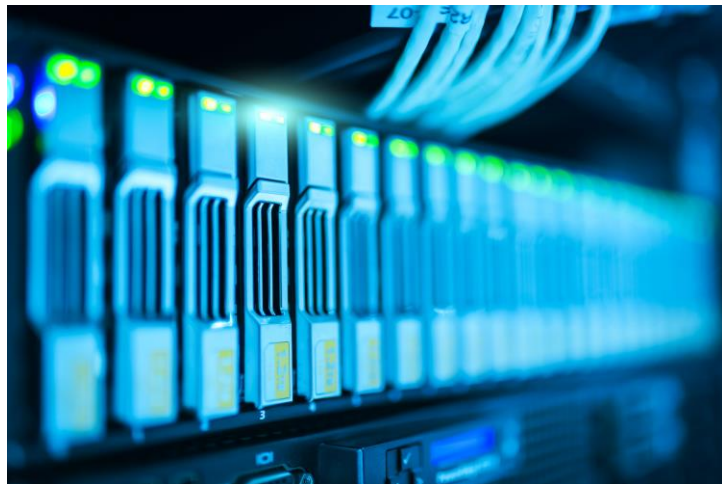
Design, model, train and validate deep neural networks as components for embedded systems or in the automotive domain.

MODELING



Model Software- and Systems Architecture components with neural network functionality on different level of abstraction for cyber-physical systems and cars. Implement code generation mechanisms based on your model.

DATA MANAGEMENT



Cope with huge datasets and the complexity of storing them efficiently, as well as handling different data versions and searching for errors.

AUTOMOTIVE



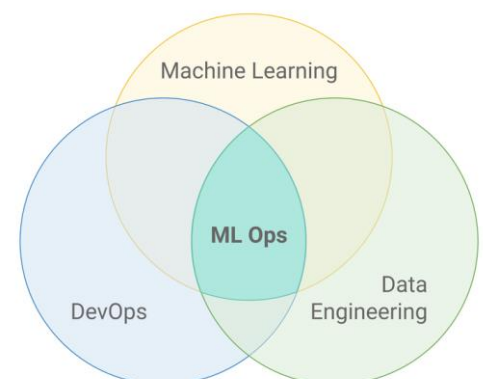
Work in projects in the automotive domain and apply different AI-technologies on multifaceted problems all around the engineering process of a modern car.

SIMULATION



Develop and test simulation environments to then apply them to problems in the cyber-physical systems domain.

MLOPS



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Simplify the complete life cycle of Machine Learning solutions by automating steps and offering infrastructure for different parties.