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# Master Thesis (m/f/d): Hyperparameter Optimization in the Context of Deep Learning Models: Derivative of Hyperparameter Correlates

## **Potential Scope for the Thesis**

- Create an analysis of the literature on the different methods and processes of hyperparameter optimization
- Deep dive into hyperparameters of ANNs (Artificial Neural Networks)
- Conduct several experiments for different scenarios (imbalanced data) in order to compare the different approaches
- Develop of an own approach to optimize hyperparameters in the manner of time and resource consumption
- Derive hyperparameter correlates for certain hardware constrains
- The thesis can be written in English or German

## Your profile

- You are a student in a scientific or IT-related field
- You have a good background in statistics, data science or quantitative methods
- You have some experience in Software Development (Python is a plus)
- You have some first practical experience with machine learning (NLP is a plus)
- You are data-driven, self-motivated, and curious about learning new things

### Your benefits

- A great office in the heart of Berlin (incl. goodies such as a kitchen to cook lunch and free Mate)
- Work from wherever you want
- Possibly employed as a working student
- Work with a modern tech stack in a young and diverse Team
- Long-term opportunities in a growing business

### About Trustami

Trustami is a technology startup in the heart of Berlin. Trustami offers online vendors to leverage their existing reputation and reviews and thus help to create trust in e-commerce. The company was founded by TU-Berlin graduates and postdocs and still employs some research products focused on using machine learning to create safer environments on the web. An example research project in cooperation with TU-Berlin is SOFIE, which aims to detect fake online reviews.