



## Kolloquium zur Bachelorarbeit

### **„Neural Network Ready Adaptive Systems“**

The goal of this thesis was to test if individual tools, that could be selected with the UI, would function depending on which

database was connected to a static front and back end. The thesis begins with explaining what the basic terminologies which are used in its making are, and then presents research into how the static front and back end could be theoretically realised. Then, the work delves into the realisation of the strategy determined by working out which technologies would be a best fit in order to realize the front and the back ends. After an analysis of multiple technologies and their frameworks available in the market, the javascript front end framework from Google, Angular was the technology used for the front end, while express JS, the open source Node JS based framework was used for the back end. For the Database, Mongo DB was chosen to be the technology deployed.

In order to demonstrate that the strategy and choice of technologies works, an example was needed. This example was created by developing a questionnaire tool that would allow data to be input from the user, stored in a database, and then recalled when needed for later use or for analysis through a neural network. The testing, which was performed based on a testing criteria, proved to be successful and it was possible to use the same front and back end to apply different tools to the data contained in different databases as they were connected to the system. A usability survey was also carried out in order to ensure that the system was user friendly, no overly complicated and does what it needed to. In other words, the aim of the thesis, which was to develop a web system that would be conditioned by the database was achieved.

Donnerstag, 08:00 Uhr,  
Besprechungsraum 106, D3, Julius-Albert-Str.4