Semantic Computing

Tutorial 7

Summer Semester 2018

Exercise 1

Train your own neural network

- a) Download the file "tutorial7.py" from http://github.com/dgromann/SemanticComputing/
- b) Take a look at the provided data and the already provided data analyses. Try to answer the following questions.
 - Which kind of machine learning task is this?
 - How many features do we have in this task?
 - What can you learn from a correlation matrix?
- c) Specify a model with one input layer, one hidden layer, and one output layer.
- d) Compile and fit the model that you have specified.
- e) Evaluate the model using the provided evaluation functions. What can you tell about the results by looking at a covariance matrix?
- f) Add another hidden layer to the model and train and evaluate again.
- g) Try an evaluation with more epochs.