NN

# Daten einladen

# Skalieren

# Architektur

### The number of input nodes corresponds to number of lagged observations in t he input vector to discover the underlying pattern in the time series for future forecasts. (Crone 2005)

### Number of hidden layers / units

#### The number of hidden layers and corresponding hidden nodes in each layer is determined using an extensive enumeration, evaluating every combination of l=1,…,3 hidden layers and a maximum of n=1,…,18 hidden nodes, applying a step size of 2 nodes and limiting the structure of multi-layered ANNs to equal sized successive layers, to limit modeling complexity with regard to the scarce data.

### number of output nodes NO in the output layer is determined by the forecasting horizon of the time series (Crone 2005)

# Parameter festlegen

### Activation

### Kernel\_initializer

### Num epochs

### Batch size

### Optimizer

### Loss

### Early stopping

### SCHLEIFE BAUEN; UM ALLE DURCHZUSPIELEN

# Model diagnostics

## MSE oder sowas? Gibt’s alles, s. loss functions in keras

# Forecast

### Predict. Geht auch