

Berichttitel

BERICHTUNTERTITEL

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# Abstract

The outlines paper is a research study to dive into the topic time series prediciton of Deep Learning with labeled data. The time series to predict is derived from the stock market. In a fisrt attempt the DAX indice will be used. There is already a classic mehtod available with a successfull proven method based on indicators for the prediciton of the DAX. In this paper the method will be rebuild with a Deepl Learning – Fast Forward Network. Overall purpsoe of this paper are the methods to get such a prediciton of the Stock market. That includes the selection of adequate data, the cleaning of the data, the chunking of the data to usable input data training of a model. Final step is the comparision of the classic algorithm with the deep learingn approach.

# Einleitung

# Theory

## Zeitreihenvorhersage

## Die Börse

# Durchführung

## Das klassiche Model

## Das Deep Learning Model

### Daten aussuchen

### Daten sammeln

### Daten preparieren

The data is collected. Fort he training oft he DL are labeld data necessary. Before doing the labeling it is necessary to know what to label for. In order to do so the possible states of labeling will be drawn first.

Labels possibilits



Decision Tree

It is important to decide first which labels will be gerenerated.  
The secons simples approach will be sought after. Case 1 and Case 2 will be labeled in the prediction model. The label will bei consist of two integers

|  |  |
| --- | --- |
| Integer 1 | Case 1 |
| Integer 2 | Case 2 |

### Daten Trainingssätze erstellen

### Training des DL Networks

# Resultate

# Zusammenfassung

# Ausblick