

NN&DeepLearning_ICP10: LSTM

Lesson Overview:

In this lesson, we are going to discuss types of ANNs and Recurrent Neural Network.

Use Case Description:

1. Sentiment Analysis on the Twitter dataset

Programming elements:

1. Basics of LSTM
2. Types of RNN
3. Use case: Sentiment Analysis on the Twitter data set

In class programming:

1. Save the model and use the saved model to predict on new text data (ex, “**A lot of good things are happening. We are respected again throughout the world, and that's a great thing.**@realDonaldTrump”)
2. Apply GridSearchCV on the source code provided in the class

Evaluation Criteria:

1. Completeness of Features
2. Code Quality (https://en.wikipedia.org/wiki/Best_coding_practices)
3. Time

Note: *Cheating, plagiarism, disruptive behavior and other forms of unacceptable conduct are subject to strong sanctions in accordance with university policy.*