

# NN&DeepLearning\_ICP: 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](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.*