Fall 2021: CSEE5590/490 – Special Topics

Python and Deep Learning Module-2 - ICP-12

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

Source Code:
Provided in your assignment folder and assignment repo.

Assignment:

1. Train and 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 the code on spam data set available in the source code (text classification on the **spam.csv** data set)

** Follow the IPC rubric guidelines.

Submission Guidelines:

1. Once finished present your work to TA during class time.
2. Once evaluated submit your source code and documentation to GitHub and represent the work in a ReadMe file properly (short summary for the ICP).

After class submission:

1. Complete your work and submit to your repo before the deadline.
2. Record a short video (1~3) minute, explaining the technical part and method used.
3. Add video link to ReadMe file.

Note: *Cheating, plagiarism, disruptive behavior and other forms of unacceptable conduct are subject to strong sanctions in accordance with university policy. See detailed description of university policy at the following URL: https://catalog.umkc.edu/special-notices/academic-honesty/*