Fall 2021: CSEE5590/490 – Special Topics

Python and Deep Learning Module-2 - ICP-11

Lesson Overview:

In this lesson, we are going to discuss Word Embedding.

Use Case Description:

1. Sentiment Analysis on the IMDB dataset

Source Code:

Provided in your assignment folder and assignment repo. Dataset uploaded to Box [Link]

In class programming:

- 1. In the code provided there are three mistake which stops the code from running successfully.
 - a. find those mistakes and explain why they need to be corrected to be able to get the code run.
- 2. Add embedding layer to the model, did you experience any improvement?
- 3. Apply the code on 20_newsgroup data set we worked in the previous classes.

```
from sklearn.datasets import fetch_20newsgroups
newsgroups_train = fetch_20newsgroups(subset='train', shuffle=True,
categories=categories,)
```

4. Predict over one sample of data and check what will be the prediction for that.

** 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 $(1\sim3)$ 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/