**CS5590 APS - Deep Learning Programming**

**ASSIGNMENT 2**

**Deadline: 4/23/2018**

**Task:**

1. Implement the **Text** classification with CNN model with new data set (minimum 5 classes) which is not used in class
2. Show the graph in TensorBoard
3. Change the hyperparameter (E.g. Learning Rate) and compare the result

**Submission Guidelines:**

1. Submit your source code and documentation to GitHub and represent the work through wiki page properly (submit your screenshots as well. The screenshot should have both the code and the output)

2. Comment your code appropriately

3. Submit **only** report at Turnitin in UMKC blackboard

4. Remember that similarity score should be less than 15%

5. Use this link to submit your assignment: <https://goo.gl/forms/l9TitNZJ8yLCwGEW2>

6. Report should include below details

1. Introduction
2. Objectives
3. Approaches/Methods
4. Workflow
5. Datasets
6. Parameters
7. Evaluation & Discussion
8. Conclusion

**Example Reports:**

<https://github.com/stratospark/food-101-keras>

<https://github.com/matterport/Mask_RCNN>

<http://blog.stratospark.com/deep-learning-applied-food-classification-deep-learning-keras.html>

**Reference for Datasets:** No need to stick with these datasets. You can choose your own dataset

<https://snap.stanford.edu/data/web-Amazon.html>

<https://www.kaggle.com/cfpb/us-consumer-finance-complaints>

<http://ana.cachopo.org/datasets-for-single-label-text-categorization>

<https://archive.ics.uci.edu/ml/datasets/reuters-21578+text+categorization+collection>

**Reference Project to get an idea:** Don’t copy

<https://github.com/jiegzhan/multi-class-text-classification-cnn>