

## Portfolio Assignment: Text Classification

### Objectives:

- Gain experience with sklearn using text data
- Gain experience with text classification

### Turn in:

- This program should be created in a notebook (Jupyter, Google, or Kaggle)
- Print to pdf and upload your pdf to eLearning and your Portfolio

### Instructions:

1. Go to Kaggle.com or any other resource. Find a text classification data set that interests you. I suggest a smaller data set. Divide into train/test. Create a graph showing the distribution of the target classes. Describe the data set and what the model should be able to predict.
2. Try Naïve Bayes, Logistic Regression, Neural Networks using sklearn.
3. Write up your analysis of the performance of various approaches

### Grading Rubric:

- Your grade is not determined by the accuracy achieved, but by how much work and thought you put into it

Caution: All course work is run through plagiarism detection software comparing students' work as well as work from previous semesters and other sources.