

# Introduction to Artificial Intelligence – CS 510

## Machine Learning Programming Assignment – Sentiment Analysis

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Files:

- **bayes.py:**  
It contains the train() and testBayes(). Train() trains the train directory. testbayes() is called from evaluate.py() to evaluate performance of the classifier.
- **evaluate.py:**  
It takes 3 cmd arguments from run.sh. This should be run to test the performance of both classifiers.
- **Bayesbest.py:**  
It contains the train() and testBayes(). train() trains the train directory. testbayes() is called from evaluate.py() to evaluate performance of the bayesbest classifier.
- **Run.sh:** it is used to call evaluate.py which evaluates the bayes and bayesbest classifier based on the arguments passed to it. Its run as:  
***sh run.sh [Classifier name] [Train directory] [Test directory]***  
Eg:  
***sh run.sh bayes Train Test***  
***sh run.sh bayesbest Train Test***  
If pickled files exist, classification happens directly. To retrain, delete files created. Instructions in Evaluation Documentation.
- **Evaluation Documentation:** A document including my answers to the reflection question, an explanation of the feature(s) I used to improve my system, and my evaluation.
- **Train Directory:** The directory of files I used for training.
- **Test Directory:** The directory of files used for testing.