# EN.601.681 Machine Learning: Optimization
## Final Project Proposal
## Peter Klinkmueller
### Due: Friday, November 09, 2018

**Machine Learning Problem**

The machine learning problem will be exploring is binary classification in a few different application areas - namely, problems with images and with text as input.

**Tentative Algorithms to Implement**

The algorithms we plan to compare and analyze for our problem are the PEGASOS algorithm and the LASSO algorithm, with additional exploration of the ISTA/FISTA methods likely also implemented depending on the speed of our progress with the first two.

**Tentative Datasets to Experiment On**

We believe we will want to analyze our algorithm's performance on two datasets out of University of California Irvine's machine learning program. One is a compilation of text messages labeled as either spam or not spam, and the other consists of mammograms labeled as either malignant or benign.

**Team Members**

The members of our team would be:

Peter Klinkmueller, Archan Patel, William Ye, and Jason Zhang