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Machine Learning – CS 158

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Predicting Restaurant Revenue

**Project Summary:**

We plan to apply and evaluate the performance of several regression methods to

**Resources:**

Scikit Learn Resources:

KRR - <http://scikit-learn.org/stable/modules/kernel_ridge.html>

SVR - <http://scikit-learn.org/stable/modules/generated/sklearn.svm.SVR.html>

Decision Tree Regression <http://scikitlearn.org/stable/auto_examples/tree/plot_tree_regression.html>

Gradient Boosting Regressor - <http://scikit-learn.org/stable/modules/generated/sklearn.ensemble.GradientBoostingRegressor.html>

KNN Regression - <http://scikit-learn.org/stable/auto_examples/neighbors/plot_regression.html>

OpenCV Resources:

Neural Network - <http://docs.opencv.org/modules/ml/doc/neural_networks.html>

Relevant Research Papers:

Semi-supervised Regression with Co-training: <http://ijcai.org/papers/0689.pdf>

Semi-supervised Bias Reduction - <http://papers.nips.cc/paper/3376-statistical-analysis-of-semi-supervised-regression.pdf>