Feature Selection

- Thompson_lecture3.pdf
- Linear Regression Lasso
 - o http://scikit-learn.org/stable/modules/linear_model.html#lasso
- Feature importance with forests of trees
 - o http://scikit-learn.org/stable/auto-examples/ensemble/plot-forest-importances.html
- Obtenga la lista de Importancias de las features del proyecto Titanic

Feature Transformation

- Thompson_lecture4.pdf
- A demo of K-Means clustering on the handwritten digits data
 - o http://scikit-learn.org/stable/auto_examples/cluster/plot_kmeans_digits.html
- Classifying Eigenfaces by Gender.pdf

Ensemble Models - Bagging and Boosting

Bagging: Random Forest

• Fuchs_lecture_2.pdf

Boosting: Adaboost

- Corso_lecture-boosting.pdf (slides 1-7, 17, 33-47)
- Example: Two-class AdaBoost
 - o http://scikit-learn.org/stable/auto examples/ensemble/plot adaboost twoclass.html
- Example: Decision Tree Regression with AdaBoost
 - o http://scikit-learn.org/stable/auto_examples/ensemble/plot_adaboost_regression.htm

Anomaly Detection

- AndrewNg_Lecture15.pdf
- Novelty and Outlier Detection
 - http://scikit-learn.org/stable/modules/outlier_detection.html

Deep Learning

- Deep Learning, Self-Taught Learning and Unsupervised Feature Learning Andrew Ng.pdf
 - o https://www.youtube.com/watch?v=n1ViNeWhC24
- Introduction to Deep Learning with Python
 - o https://www.youtube.com/watch?v=S75EdAcXHKk
 - o http://www.slideshare.net/indicods/deep-learning-with-python-and-the-theano-library
- Deep Learning Tutorial (on Amazon EC2)
 - o https://www.kaggle.com/c/facial-keypoints-detection/details/deep-learning-tutorial
- My solution for the Galaxy Zoo challenge
 - o http://benanne.github.io/2014/04/05/galaxy-zoo.html