**Machine Learning Midterm Due 2 March Midnight (PST)**

1. MINST is a famous datasets of handwritten Characters. Choose the datasets of Characters in numbers 0 – 9 in the datasets from the website (<http://yann.lecun.com/exdb/mnist> ) or even you can just create and draw your own handing writing of number 0 – 9, save them into files and train them.

Use at least two models we learnt so far to set up machine learning model to recognize what number it is from the handwritten images and calculate accuracy . (70’)

2. Read the paper Learning Feature Representations with K-means and write at least 400 reading flections including: a) Models proposed and why b) that is the problem covered c) limitations and solutions d) how compare with other models (30’)