Logistics (Theory)

Attendance : None

Q & A : Moodle discussion forum

Announcements : moodle

communication : email with CS335/837 in sub

office hours : 1st half : Tue (5-6pm)
2nd half : wed (11-12pm)

Evaluation

Participation : Scribe 2 lecs in Latex (5%)

Quizzes : Best 2 (15%)

Midsem exam : 25%

Final exam : 40%

Course project : 15%
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3-4 members (any problem works, using
techniques learned in the course)

Logistics

Aug 7: Probability/matrix-vector calculations, simple ML pipeline and Kaggle

Aug 14: Linear regression (closed form), gradient descent

Aug 21: Regularization, lasso/ridge regression

Aug 28: Logistic regression (using gradient descent), naive Bayes classifier

Sep 4: Decision Trees

Sep 11: Perceptron + SVM classifiers

Sep 18: QUIZ

Sep 25: Feedforward NNs + backprop

Oct 2: HOLIDAY

Oct 9: Regularizing NNs, optimizers, CNN-based classifier

Oct 16: Simple NLP, text-based classification using embeddings

Oct 23: PCA, dimensionality reduction

Oct 30: Clustering, k-means

Nov 6: Ensemble classifiers, boosting/bagging, random forests

Evaluation

In-lab : 35%

Quiz - 1 : 15%

Final exam : 50%

Program templates
Will all be in python

mandatory
attendance