EE258 – PROJECT II (Updated)
FALL 2017
DEADLINE FOR INITIAL RESULTS: DEC 5th
DEADLINE FOR REPORT/CODE SUBMISSION on CANVAS: DEC 16th

PLEASE SIGN-UP FOR THE PROJECT ASAP (Deadline .Nov 21)
EACH COMPETITION PROJECT HAS A CAPACITY OF 10 students (~5 groups if each group has two students)

Here are possible options for project-II:

PROJECT II 1. Dog Breed Identification (Kaggle)
PROJECT II 2. Spooky Author Identification (Kaggle)
PROJECT II 3. Tensorflow Speech Recognition Challenge (Kaggle)
PROJECT II 4. Housing Prices: Advanced Regression Techniques (Kaggle)
PROJECT II 5. Titanic: Machine Learning from Disaster (Kaggle)
PROJECT II 6. Statoil/C-Core Iceberg Classifier Challenge (Kaggle)
PROJECT II 7. Cdiscount's Image Classification Challenge (Kaggle)
PROJECT II 8. Replicate the results of a paper in applications of deeplearning (needs to be approved by the instructor by Nov 21st – Provide the paper and data source)

Below are more details:

A. KAGGLE COMPETITIONS (available at https://www.kaggle.com->Competitions):

1. Enter the competition with a team name provided by the instructor.
2. Teams should have at most 2 students
3. Implement a deep learning algorithm (MLP, CNN, RNN, etc) to solve the problem given in the selected competition
4. Work on improving your deep learning model using techniques such as regularization, dropout, normalization etc.
5. Prepare 5 minute presentation of your initial results to be presented on Dec 5th during lecture.
6. Prepare a report explaining
    - Methodology
    - Data
    - Simulations
    - Results
    - Your kaggle performance
7. Submit your code and report on Canvas by Dec 16th. Each student should prepare their own report even if they work in a team.
8. Performance of your Kaggle submissions will be part of your grade

B. REPLICATE THE RESULTS OF A PAPER:

1. The paper and data should be approved by the advisor – deadline Nov 21st
2. Prepare 5 minute presentation of your initial results to be presented on Dec 5th during lecture.
3. Prepare a report explaining
   - Methodology
   - Data
   - Simulations
   - Results
4. Submit your code and report on Canvas by Dec 16th. Each student should prepare their own report even if they work in a team.