General Instruction

- Submit uncompressed file(s) in the Dropbox folder via BeachBoard (Not email).
- 1. Find the cifar-10 data set. There are 50,000 training images (data_batch_x) and 10,000 test images (test_batch).
- 2. (10 points) Using your neural network of classifying mnist data set (assignment 6), classify cifar-10 data set and report the test accuracy.
- 3. Design covolutional neural networks to classify cifar-10 images using keras library.
 - (a) (10 points) Submit html and ipynb files which include your source code.
 - (b) (5 points) Report the best network design and its test accuracy.
 - (c) (15 points) Visualize the filters in the first convolution layer.
- 4. Submit a pdf file which includes all reports and visualization.
- 5. (Extra points) Based on the best test accuracy of each group, Rank #1 group will receive extra 5 points and Rank #2 group will receive extra 3 points.