**CS5542 Big Data Apps and Analytics**

**In Class Programming –4**

**21st  February 2022 (by 11:59 pm)**

**CNN:**

**Use the same data (that we used in ICP3** from keras.datasets import cifar10)**) and use the model provided in ICP4 to perform image classification. You must change 4 hyper parameters in the source code. Report your findings in detail.**

**Note: please indicate in your reports which 4 hyperparameters you changed in the source code and why in your opinion these changes are logical.**

ICP Requirements:

1. Successfully executing the code and changing 4 hyperparameters in the model
2. Validating the model on 5 new images (that are not present in the data set and are not used in training or testing but are taken form internet)
3. Providing the logical explanation of the changes that you made to hyper parameters and over all code quality
4. Wiki Report quality, video explanation

Submission Guidelines:

1. Sign in into your github account
2. Click on this link : <https://classroom.github.com/a/N4lKsjrI>
3. Accept the ICP-5 (Assignment 5)
4. Complete your ICP and create your wiki report (Pdf or Word doc).
5. Folders for ICP:
   1. Create two folders for source code and documentation
      1. Source code folder contains only the code and output file (if applicable)
      2. Documentation folder contains wiki report and the images of your results
6. The wiki report should have at least the following:
   1. What you learned in the ICP
   2. ICP description what was the task you were performing
   3. Challenges that you faced
   4. Screen shots that shows the successful execution of each required step of your code
   5. Out put file link if applicable
   6. Video link (YouTube or any other publicly available video platform)
   7. Any inside about the data or the ICP in general
7. Upload your ICP folders to your assignment GitHub repository
8. Click on the add a readme file on the next page and write done your and your partner name and email

You are all Done!!!!!!!