**CS5542 Big Data Analytics and App**

**LAB ASSIGNMENT #10**

**Lab Submission before ~~2017/4/3(M)~~  2017/4/5(W) 11:59PM.**

* Follow the guidelines for uploading assignment to GitHub
* Submit the screenshots of the task under documentation folder in GitHub and push the code to Source folder in GitHub
* **No late submissions** (penalty or not) will be accepted.
* Create **wiki page** for report and include **images in wiki page**
* Submit your Github project for Lab Assignments with source code, input and output data and wiki page containing the report for your lab Assignment. [**https://goo.gl/forms/L5NVqbdwBwkwK2n13**](https://goo.gl/forms/L5NVqbdwBwkwK2n13)

1. **TensorFlow Programming:**

**Write a TensorFlow program for the following Task.**

* 1. Retrain Inception Model final layer for Image Dataset that is not covered in class. Report accuracy etc.
  2. Visualizations (Tensor Board): training, loss, weights etc. and validation
  3. Report Confusion Matrix for training and validation/testing.

In the Wiki Page, include a brief description of your dataset and your approach/results for this task.

1. **Develop a Web-based Application for Visual Question Answering that is relevant to your own project including the following features**
   1. Web application for Visual Question answering
   2. Connect the web application to TensorFlow API
   3. (Bonus) conversation Q/A application using Google Conversation Action API