**CS5542 Big Data Analytics and App**

**LAB ASSIGNMENT #9**

**Lab Submission before 2017/3/22(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. Implement a CNN model for image classification for the datasets that you consider relevant to your project.
  2. Report accuracy and time to build the CNN model.
  3. Visualizations (Tensor Board): training, loss, weights etc.

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. Google Conversation API
   2. Question answering for images
   3. Connect it to Clarifai API or Spark API