**CS5542 Big Data Analytics and App**

**LAB ASSIGNMENT #4**

**Lab Submission before 2018/3/14(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/UXUKkPu6sk2A2DiA3**

**TensorFlow Programming:**

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

* 1. Implement linear regression for your project dataset
  2. Plot training cost using Matplotlib in python.
  3. Implement cross-validation (Optional)

d.  Implement SoftMax Classification for your project Dataset. Report accuracy.

e. Visualizations (Tensor Board): training and testing both.

Reference: <https://www.tensorflow.org/programmers_guide/reading_data>

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