CS5542 Big Data Analytics and App

LAB ASSIGNMENT #9

1.TensorFlow Programming: Write a TensorFlow program for the following Task.
a.Implement a CNN model for image classification for the datasets that you consider relevant to your project.
b.Report accuracy and time to build the CNN model.
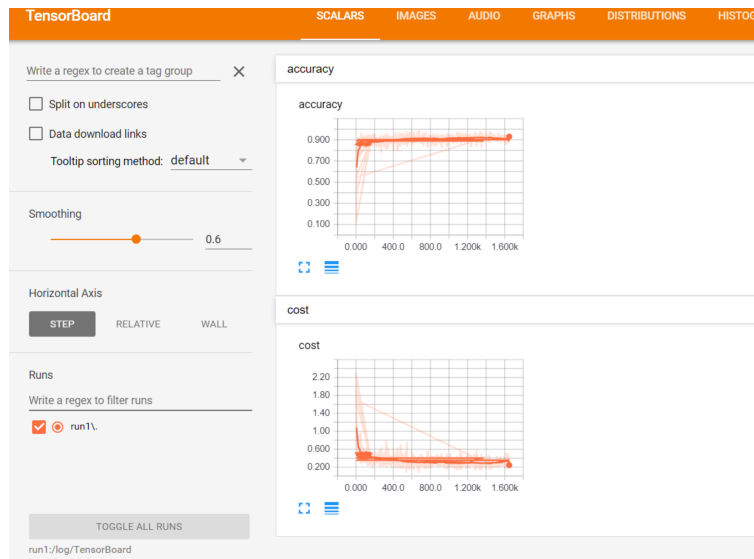c.Visualizations (Tensor Board): training, loss, weights etc.

Description of the dataset: *in this lab, I use the data set of Deaths in 122 U.S. cities, it contains the complete set of data reported to 122 Cities Mortality Reposting System. The system was retired as of 10/6/2016. While the system was running each week, the vital statistics offices of 122 cities across the United States reported the total number of death certificates processed and the number of those for which pneumonia or influenza was listed as the underlying or contributing cause of death by age group (Under 28 days, 28 days - 1 year, 1-14 years, 15-24 years, 25-44 years, 45-64 years, 65-74 years, 75-84 years, and - 85 years). the result shows below:*

```
Instructions for updating:
Use `tf.global_variables_initializer` instead.
Epoch:  0
Accuracy:  0.9173
Done

Process finished with exit code 0
```
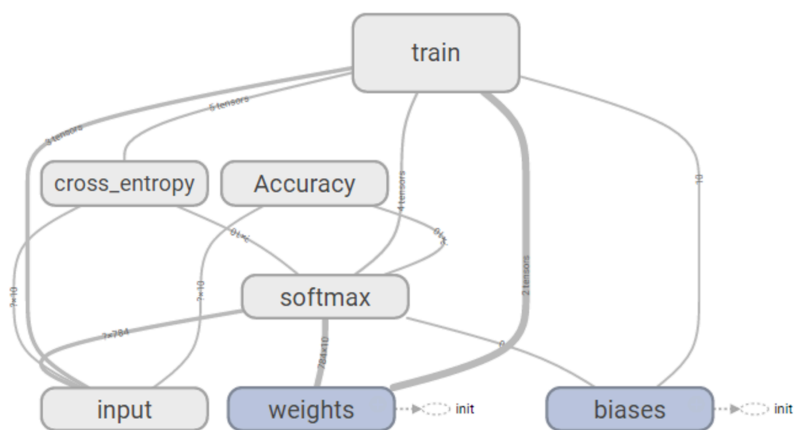
```
Step 200,  Training Accuracy   0.56
Step 300,  Training Accuracy   0.94
Step 400,  Training Accuracy   0.26
Test Accuracy     0.9623
Time for building CNN:
56482


Process finished with exit code 0
```
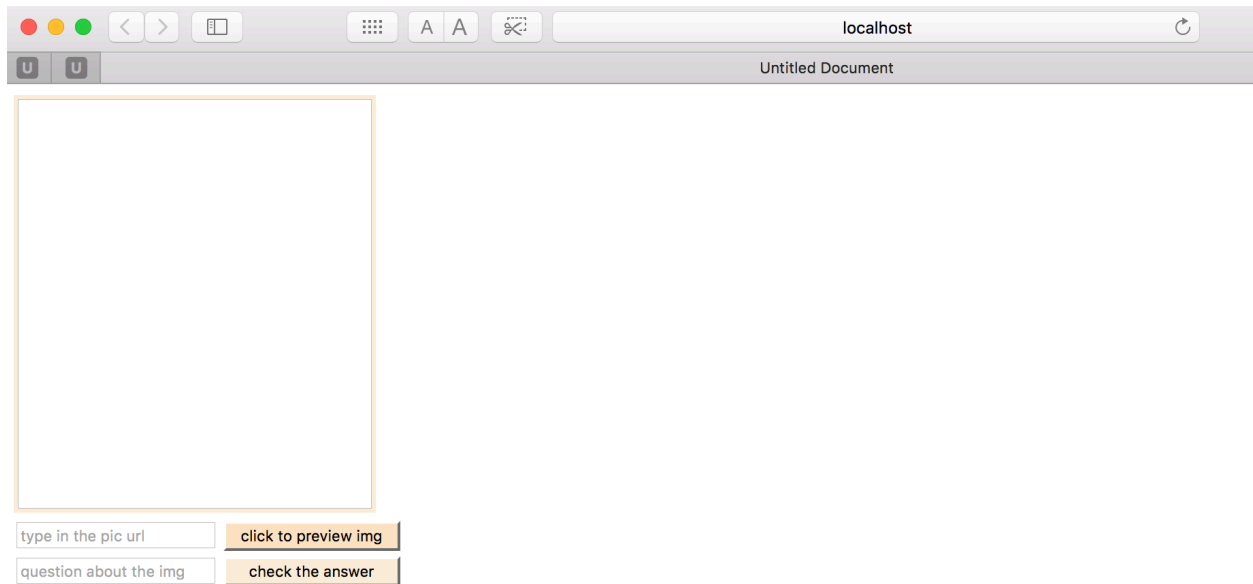
Main Graph

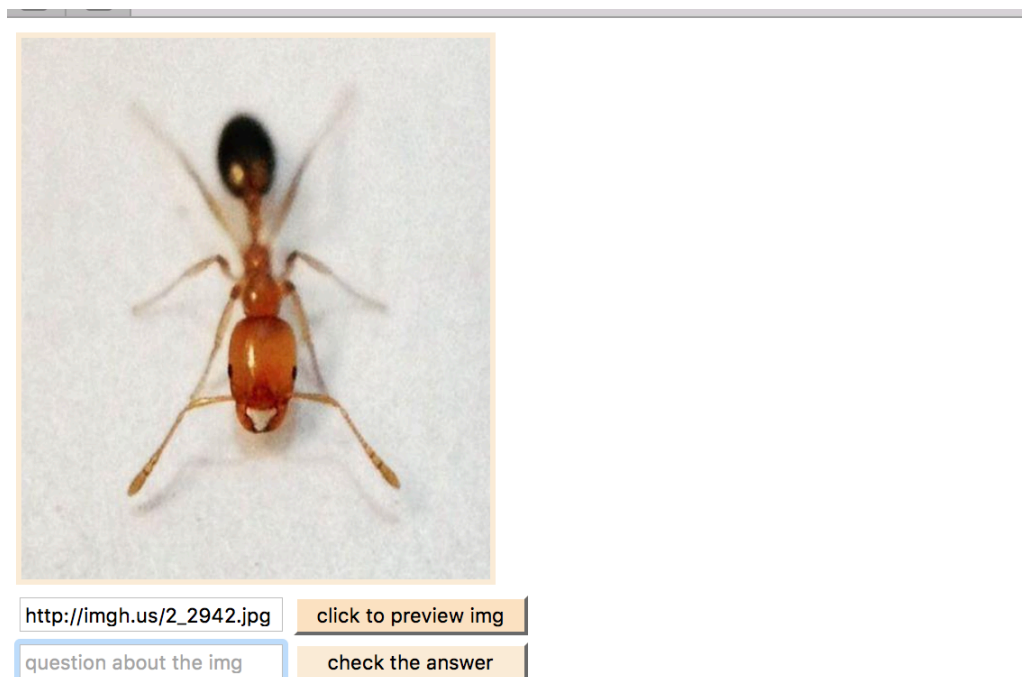**2.Develop a Web-based Application for Visual Question Answering that is relevant to your own project including the following featuresa.Google Conversation APIb.Question answering for imagesc.Connect it to Clarifai API or Spark API**

the answer is :

http://imgh.us/2_2942.jpg | click to preview img

question about the img | check the answer

the answer is :

http://imgh.us/2_2942.jpg   click to preview img

topic of the picture   check the answer

the answer is : this picture is talking about ants