

CSC 421 – Assignment 4

Due date: Dec 1, 11:55 pm.

For this assignment you should complete the posted Python notebook.

To setup follow these steps.

Download the python notebook for this assignment. Put it in the directory of your choice. Also download the following python pickle files:

http://webhome.cs.uvic.ca/~thomo/mnist_nonbin_classification.pickle

http://webhome.cs.uvic.ca/~thomo/mnist_bin_classification_9vsRest.pickle

Put them in the same directory.

After having installed Anaconda and Tensorflow, execute

jupyter notebook

and select assign4_post notebook and do the exercises there.

Installing Anaconda and Tensorflow in Windows

1. Download and install the latest Anaconda 64 bit: <https://www.anaconda.com/download>

When you install it, please take care to click on the box asking you to include Anaconda in the PATH.

2. Download a precompiled Tensorflow environment: <http://webhome.cs.uvic.ca/~thomo/tf.zip>

Unzip the file and put it under C:

Your directory will be C:\tf

3. Go to the directory of your choice (where you put the assignment files above). From command line execute: activate C:\tf

Then execute: jupyter notebook as described above.

Installing Anaconda and Tensorflow in Mac

1. Download and install the latest Anaconda 64 bit: <https://www.anaconda.com/download>

2. Create Conda Environment for tensorflow and activate it

Create Conda Environment named tensorflow:

```
conda create -n tensorflow
```

Activate the environment using:

```
source activate tensorflow
```

3. Download and install Tensorflow:

Download wheeler file for TensorFlow and save it anywhere in your machine:

<https://storage.googleapis.com/tensorflow/mac/cpu/tensorflow-1.3.0-py3-none-any.whl>

Note the path to this wheeler file, let's call it PATH_TO_FILE here.

Install tensorflow library on the newly created tensorflow environment using:

```
pip install --ignore-installed --upgrade PATH_TO_FILE
```

4. Check if tensorflow works fine:

From the environment created, launch jupyter notebook:

```
jupyter notebook
```

Open a new python3 notebook and try running:

```
import tensorflow as tf
```

If the cell runs without any error, you are all set to go!

Remark.

If you have a problem with the installation in Windows contact Jinghan (jinghan.j@outlook.com)

If you have a problem with the installation in Mac contact Pooja (bhojwani.pooja@ymail.com)