Homework 01 – Introduction

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0 Outline

- 1 Logistics
- 2 Reading
- 3 Theory
- 4 Practice

1 Logistics

Assigned: Mon Jan 14, 2019 Due: Wed Jan 23, 2019

Format: PDF uploaded to eLearning with the following format

Homework 01 – Introduction

FirstName LastName

NetID

As a Comet, I pledge honesty, integrity, and service in all that I do

- 1. Complete or Incomplete
- 2. Complete or Incomplete

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7. Complete or incomplete

2 Reading

None

3 Theory

None

4 Practice

1. If you are not familiar with Python and it's commonly used libraries read the following tutorial

Web site: http://cs231n.github.io/python-numpy-tutorial/

Complete

2. Install TensorFlow and associated dependencies on your local machine

Web site: https://www.tensorflow.org/install/

Options: Via package (pip or Docker) or build from source; recommended to

include GPU support if you have a Nvidia GPU with CUDA compute

capability 3.5 or higher (don't worry about this if you don't)

Complete

3. Read the following sections in the TensorFlow guide

Web site: https://www.tensorflow.org/guide/

Sections: High level APIs

Estimators Low level APIs TensorBoard Performance

Complete

4. Run the following tutorials on TensorFlow on your local machine

Web site: https://www.tensorflow.org/tutorials/

Tutorials: 1. Basic classification

5. Save and load

Complete

5. Browse through the features of Google's Colaboratory

Web site: https://colab.research.google.com/notebooks/welcome.ipynb

Complete

6. Browse through the examples (seeds) on Google's SeedBank

Web site: https://research.google.com/seedbank/

Features: Browse Seeds

Tutorial FAQ

Complete

7. Run the Fashion MNIST with tf.keras example on Google's Colaboratory

Web site: https://research.google.com/seedbank/seed/5648554290839552

https://colab.research.google.com/github/tensorflow/docs/blob/master/site/en/tutorials/keras/basic_classification.ipynb

Complete