Thu, Jan 18, 2018 at 7:12 PM :

<http://www.deeplearningbook.org/>

As we go through the course I will be posted more (simple) reading papers/materials.

Sun, Jan 21, 2018 at 6:28 PM :

Using neural nets to recognize handwritten digits

<http://neuralnetworksanddeeplearning.com/chap1.html>

Sun, Jan 21, 2018 at 6:38 PM :

<http://neuralnetworksanddeeplearning.com/chap2.html>

Tue, Jan 23, 2018 at 11:25 AM :

1. Posted more papers on CourseWork

2. Tutorial on Python: There are many, but these two been recommended

<http://tdc-www.harvard.edu/Python.pdf>

<https://www.slideshare.net/amiable_indian/introduction-to-python>

3. Install Python(Max/Windows/Linux)

<https://www.anaconda.com/download/>

Packages: Spyder, Numpy, Matplotlib, Tensorflow, Keras

Will post some sample codes shortly

Wed, Jan 24, 2018 at 5:32 PM :

posted on CourseWork a Flowchart for training & assessing a Deep Learning Model

Please take a look at these two for tomorrow lecture

<https://www.tensorflow.org/api_docs/python/tf/placeholder>

<https://www.tensorflow.org/api_docs/python/tf/Session>

I will post some more sample codes tomorrow before the lecture.

Thu, Jan 25, 2018 at 12:40 PM :

Please take a look at TensorFlow's The Optimizer Base Class

<https://www.tensorflow.org/versions/r0.12/api_docs/python/train/optimizers>

Posted some (cleaner/updated) Pyhon codes on CourseWork

Wed, Jan 31, 2018 at 1:38 PM :

Before starting Convolutional Neural Networks (CNNs) we are going to discuss Algorithms with Adaptive Learning Rates (beyond Gradient Descent) as mentioned yesterday.

Chapter 8 Section 5 of Deep Learning Online Book by Goodfellow et al would be a good reference for these Algorithms.

Also the following two online chapters would be very helpful.

<http://neuralnetworksanddeeplearning.com/chap3.html>

<http://neuralnetworksanddeeplearning.com/chap4.html>

See you tomorrow.

Thu, Feb 1, 2018 at 2:58 PM :

Yann reaction to Ali's speech at NIPS

<https://www2.isye.gatech.edu/~tzhao80/Yann_Response.pdf>

Fri, Feb 2, 2018 at 9:35 AM :

Glance through it.

<http://bayesiandeeplearning.org/2017/papers/15.pdf>

Wed, Feb 7, 2018 at 10:24 AM :

a. Image Kernels explained Visually <http://setosa.io/ev/image-kernels/>

b. Assume you saved your graph output in the following directory C:\Users\you\logs\myOutput1\

type on Anaconda prompt $ tensorboard --logdir=C:\Users\you\logs\myOutput1

and you can see graphs/etc on <http://localhost:6006/>

Thu, Feb 8, 2018 at 10:30 AM :

a. A sample code on CNNs was posted.

b. An interesting point of view

Deep Learning: A Critical Appraisal

<https://arxiv.org/ftp/arxiv/papers/1801/1801.00631.pdf>

c. A reference on CNNs with some codes

<http://neuralnetworksanddeeplearning.com/chap6.html>

Thu, Feb 8, 2018 at 3:55 PM :

Dear all,

On Thursday Feb 22nd, Francois and I would be holding a 10-15 min meeting with each group (my office Mudd 332).

It is pretty informal, quick briefing on your understanding of the project and next step(s).

Planning to start at 3:50 and end at 5:40 (if you do not have any class before 3:50 let Francois know we can start earlier).

Francois would send meeting times later.

Cheers,

A

ps. Needless to say there would not be any lecture on that day.

Mon, Feb 12, 2018 at 3:02 PM :

Please glance through the following paper on Batch Normalization (2015) on accelaerating training

Will post some sample codes later

<https://arxiv.org/pdf/1502.03167.pdf>

Tue, Feb 13, 2018 at 9:56 AM :

Posted some sample codes on smoothing & Batch Normalization (under Week5)

Wed, Feb 14, 2018 at 11:08 AM :

FYI -- A short thesis on Batch Normalization

<https://kth.diva-portal.org/smash/get/diva2:955562/FULLTEXT01.pdf>

Wed, Feb 14, 2018 at 3:29 PM:

Please glance through the paper (and the slide version) of Hinton & Salakhutdinov experimental setup for dim-reduction using Autoencoder. I will go through the code tomorrow.

<https://www.cs.toronto.edu/~hinton/science.pdf>

<https://web.inf.ufpr.br/menotti/ci171-2015-2-1/files/seminario-Victor-slides.pdf>