A4Ayub Hands-On Lab with deeplearning.ai Session Plan

1 — 26th September 2020

Image Processing

- Convolution Neural Network Theory
- Problem Definition
- Feature Generation
- Feeding the data into an Image Classifier
- Binary Image Classification Notebook Walkthrough
- Setting up Tensor Board.
- Using Tensor board

2 — 31st October 2020

Time Series

- Neural Network Theory
- LSTM Theory
- Problem Definition
- Univariate LSTM Models Notebook Walkthrough
- Multivariate LSTM Models Notebook Walkthrough
- Multi-Step LSTM Models Notebook Walkthrough
- Multi-Variate and Multi-Step LSTM Models Notebook Walkthrough

3 — 28th November 2020

NLP

- NLP Theory
- Classification Modelling Theory
- Problem Definition
- Topic Modelling using genism
- Classification Modelling Notebook Walkthrough