DEEP LEARNING TUTORIAL

Follow these steps to get acquainted with deep learning theory as well as practical implementation.

- Coursework for Deep Learning: This is one of the famous websites to learn deep learning and terminologies. A highly recommended tutorial to get started.
- Understand standard terminologies: Keras is a popular deep learning library and now growing at a rapid speed. Official website has sufficient documentation to understand how to write following layers.
 - Fully connected / Dense Layers
 - Convolution Layer
 - Activations
 - Batch Normalization
 - Dropout
 - Optimizers: SGD(Stochastic Gradient Descent)
 - Losses
 - Evaluation metrics: Accuracy, precision, recall, f-measure.
- Once you have basic understanding of layers, follow these codes to write your own neural net and train on popular MNIST dataset.
 - Implement a Dense layer only network for mnist digit classification.
 - O Define a model using Sequential Technique.
 - Implement a Convolutional neural net for mnist digit classification.
- Learn general image classification and understand training by plotting using tensorboard.
 - Keras tutorial on image classification
 - Plotting training information using tensorboard