DEEP LEARNING WITH KERAS

06/03/19 – 07/03/19

Objectives of the 2-day workshop:

1. Make Deep Learning easy for everyone
2. Learn to apply Artificial Intelligence (AI) to create social impact.

What you will gain:

1. Easily grasp State of art Deep Learning Techniques along with hands-on programming
2. Work as a team to win to apply AI for social impact and start developing prototypes.
3. If you are interested in applying technology for a good cause, Day 2 of the workshop will bring out this potential in you.

Day 1:

Session 1: Introduction to the Art of Deep Learning.
1. Introduction to Deep Learning concepts
2. How to easily get started on Deep Learning projects using Keras on Google Tensorflow
3. How to apply Deep Learning for Computer Vision

Session 2: Create Cutting edge Artificial Intelligence solutions

1. Art of architecting a neural network
2. Grasp how to develop cutting edge AI by learning from state of art AI research papers in the last 3 years (Image classification, Auto-encoder, GAN)
3. Hands-on practice to Keras Functional API on python

Day 2:

Session 1: How to apply AI to solve a problem?
1. How to solve problems such as self-driving cars or healthcare innovation or agricultural productivity.

Session 2: Hack-a-thon: Applying Deep Learning for social impact
1. Hack-a-thon and win prizes as a team
2. Present your ideas and results in 60 seconds

Pre-requisites or Pre-reading:

1. Some basic exposure to programming.
2. If you are a student from CS branch, and if your expose to any language such as C or C++ or Java, you might want to learn some Python before you walk in.
3. If you are a Karunya student from non-CS branch, just read/watch any introductory Python programming tutorial for 2 hours before you walk in.

Requirements:

1. Laptop.
2. Google Chrome web browser and create an email id with Google.