

# Computer Society of India Trivandrum Chapter

## Two Day Workshop on Introduction to Deep Learning

**Date: 3<sup>rd</sup> - 4<sup>th</sup> December 2018 From 9.00 am to 5.00 pm**

### Introduction

Computer Society of India, Trivandrum Chapter in Technical Collaboration with Mar Baselios College of Engineering and Technology, Trivandrum organizes Two Day Workshop on Deep Learning at CSI Trivandrum Chapter, Cherian's Square, Ambujavilasam Road, Thiruvananthapuram, on 3rd and 4th December 2018.

Deep Learning is at the cutting edge of what machines can do, and developers and business leaders absolutely need to understand what it is and how it works. This unique type of algorithm has far surpassed any previous benchmarks for classification of images, text, voice and video. It also powers some of the most interesting applications in the world, like autonomous vehicles and real-time translation.

The goal of this course is to give learners basic understanding of modern neural networks and their applications in computer vision and natural language understanding.

### Pre-requisites

Basic Knowledge in Programming. A quick recap of Python is included in the session.

### Pedagogy:

Will consist of theoretical and hands-on sessions to enable participants to understand the conceptual base to reinforce the learning. **Participants are required to bring their own laptops with WiFi connectivity.**

### Topics Covered in this workshop are

#### Sessions :

##### 1. Introduction to Machine learning :

- Supervised /Unsupervised Learning
- Logistic and Linear Regression

##### 2. Python for Data Science

- Python Basics
- Libraries: Numpy, Mathplotlib, Scikit, Keras

##### 3. Deep Neural Network

- Artificial Neural Network
- Deep feed forward neural network
- Optimization and Regularization Strategies
- Auto Encoders
- Hands on Session

##### 4. Convolution Neural Network

- Convolution Neural Network
- Transfer Learning
- Hands on session

##### 5. Recurrent Neural Networks

- RNN
- Hands on session

### Faculty Profile

Dr Vishnukumar S, Chairman, CSI Trivandrum Chapter and Faculty, MBCET.  
Dr Tessy Mathew, Head of CSE Department, MBCET.

Dr Jisha John, Faculty, MBCET  
Prof. Aswathy Ravikumar, Faculty, MBCET  
Prof. Binu Jose A, Faculty, MBCET  
Prof. Jesna Mohan , Faculty, MBCET

**Date & Time**

Monday , Tuesday, 3<sup>rd</sup> and 4<sup>th</sup> December 2018, 9:00 AM to 1:00 PM and 2:00 PM to 5:00 PM

**Venue**

CSI Trivandrum Chapter, Cherian's Square, Ambujavilasam Road, Thiruvananthapuram, Kerala, India, PIN: 695001

**Registration Fees:**

**General Public:** Rs.2500/- Per Participant  
**CSI/IEEE Members:** Rs.2000/- Per Participant  
**Students:** Rs.1500/- Per Participant  
**CSI/IEEE Student Members:** Rs.1000/- Per Participant

All Payments may please be made by DD/Cheque in favour of "**CSI Trivandrum Chapter**" Payable at Trivandrum or through the site [register.csitvm.org](http://register.csitvm.org) or through Net Banking. CSI Account details are provided below.

Account Name: CSI Trivandrum Chapter  
Account Number: **33853741841**  
Bank: State Bank of India  
Branch: MIDC Andheri (East), Mumbai  
Branch Code: 07074  
Type of Account: Savings Bank  
IFSC Code: **SBIN0007074**

**For Registration Contact:**

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**Mobile: 9400796741**

**Participation only through advance registration, (Batch size : 30 participants only)**