

Day 2: 28th September 2019

Deep Learning with Python

Resource Person:

Mr. Saravanan Natarajan

Data Scientist
HP Enterprise
Chennai.

Session I: 9.30 am – 11 am

Introduction to Deep learning
Back propagation algorithm

Session II: 11.30 am – 1 pm

Gradient Descent Optimization
Building Deep Neural Network

Session III: 2 pm – 3.15 pm

Overfitting problem
Introduction to computer vision and
Convolutional Neural Network

Session IV: 3.30 pm – 5 pm

Classifying Day and Night Images
Other Industry applications

Note: Hands on experience on both days.

Registration Details:

Online Registration Link

<http://erp.loyolacollege.edu/loyolaonline/conference/loginManager/youLogin.jsp>

Visit: www.loyolacollege.edu

Registration Fee: Rs. 1500/-

(Registration Fee includes Lunch, refreshments, Workshop Kit and Certificate)

Last date for registration : 20/09/2019

(Only limited seats are available)

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Loyola College (Autonomous)

(College of Excellence)

Nungambakkam,

Chennai – 600 034

Affiliated to the University of Madras and
Re-accredited with 'A' Grade (CGPA 3.70/4) by NAAC



National Level Workshop

On

**“Machine Learning & Deep Learning
with Python”**

27th & 28th September 2019

Organized by

Department of Computer Science

Loyola College (Autonomous)

Nungambakkam, Chennai – 600 034

About the College

Loyola College, a Catholic Minority Institution, was founded by the Society of Jesus (Jesuits) in 1925, with the primary objective of providing University Education in a Christian atmosphere for deserving students irrespective of caste and creed. The College aims at training young men and women of quality to be leaders in all walks of life with holistic formation, whom we hope will play a vital role in bringing about the desired changes for the betterment of the people of our country, more particularly of the Dalits and other poorer sections of society. India Today magazine has repeatedly ranked the Arts, Commerce and Science departments of Loyola College amongst the top 10 colleges in India. Loyola College is also awarded “the Best Men's College in the City on the Employability skills” by PR Syndicate.

About the Department

The Department of computer science was started in Loyola in the year 1993. The Department aims at imparting quality education through effective teaching and updated curriculum that is on par with the industry needs. The department prepares and motivates the students for their careers and higher studies through various seminars, workshops and personality development programmes. The thoroughly committed and well trained faculty members of the department enable the students to learn, develop and achieve their goals. In addition, the students are exposed to team work by means of projects and internships and are well equipped with communication and interpersonal skills to excel in their professional career.

About the Workshop

This workshop aims to bring academicians, researchers and industry practitioners to discuss the importance and future research directions of machine learning and deep learning.

It covers an overview of Machine and Deep learning algorithms and their applications. The training comprises of a series of lectures and practical exercises. The participants obtain deep insights of Data Science, which in turn helps them to apply it in practice or as a foundation to a deeper study in this area.

Outcomes of the workshop

- Exposure of Python in the field of deep learning and machine learning.
- Understanding the key components in machine learning and deep learning.
- Ability to identify the specific domain areas where deep learning and machine learning can be applied.
- Provides research directions in machine and deep learning.
- Building a network with like- minded individuals.

**Venue: Xavier Computer Lab
(Jubilee Building, Third Floor)**

Time: 9.30 am – 5.00 pm

Day 1: 27th September 2019

Machine Learning with Python

Resource Person:

Ms. Nidhi Kumari,

Consultant

EY Advisory

Session I: 9.30 am – 11 am

Machine Learning

Introduction

EDA overview and Data preparation

Missing Value Imputation

Outlier Detection

Session II: 11.30 am – 1 pm

Regression

Simple Linear Regression

Multiple Linear Regression

Session III: 2 pm – 3.15 pm

Classification Techniques

Classification and Regression Trees

Random Forest

Support Vector Machine

Model Evaluation Techniques

Session IV: 3.30 pm – 5 pm

Clustering Techniques

K Means Clustering

K Medoids Clustering

Hierarchical Clustering