ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to JNTUK, Kakinada * Approved by AICTE, New Delhi * Accredited by NAAC
Recognized by UGC Under section 2(f) and 12 (B) of UGC Act 1956
ADB ROAD, ADITYA NAGARA, SURAMPALEM-533437

Department of Information Technology

Date: 18.12.2019.

To
The principal
Aditya College of Engineering & Technology
Surampalem

Respected sir,

[Through Head of the Department]

Sub: Request for your approval to organize a certification course on "MACHINE LEARNING USING PYTHON" – reg.

It's our greatest pleasure to bring to your kind notice that, we the Department of InformationTechnology would like to train our B.Techstudents in the **MACHINE LEARNING USING PYTHON**adapted initially, with the help of our staff; as the present scenario our world is working with advanced software and technologies. It will be more helpful to the students in theoretical and technical point of view. In this regard we are requesting your permission for further proceedings.

Resource Person	:	MS. A Swapna Assistant Professor
Honorarium	:	Rs. 10000/-

forwarded to
The Principal

Course Coordinator

PRINCIPAL
Aditya College of
Engineering & Technology
SURAMPALEM- 533 437

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to JNTUK, Kakinada * Approved by AICTE, New Delhi * Accredited by NAAC
Recognized by UGC Under section 2(f) and 12 (B) of UGC Act 1956
ADB ROAD, ADITYA NAGARA, SURAMPALEM-533437

Department of InformationTtechnology

Date: 19.12.2019

CIRCULAR

All the B.Tech students are here by informed that aone-week program is arranged to enhance the knowledge on**MACHINE LEARNING USING PYTHON,** as per the schedule from 20th January,2020. All interested students can attend the program and utilize the opportunity. The schedule is attached.

Course Coordinator: Dr. R V S LALITHA
+91 8008379819

Head of the Department

PRINCIPAL
Aditya College of
Engineering & Technology
SURAMPALEM- 533 437

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to JNTUK, Kakinada * Approved by AICTE, New Delhi * Accredited by NAAC
Recognized by UGC Under section 2(f) and 12 (B) of UGC Act 1956
ADB ROAD, ADITYA NAGARA, SURAMPALEM-533437

Department of InformationTtechnology

MACHINE LEARNING USING PYTHONSyllabus

Machine Learning Basics

Understanding Machine Learning

Deep Learning, Python Libraries for Deep Learning

Machine Learning Methods

The CRISP-DM Process Model

NumPy

Creating Arrays

Pandas

Scikit-learn

Tensorflow

Time Series Analysis

Processing, Wrangling, and

Visualizing Data

Data Wrangling, Visualizing with Pandas

Binarization

Transforming Ordinal Features

One Hot Encoding Scheme

Dummy Coding Scheme

Course Coordinator

Head of the Department

PRINCIPAL
Aditya College of
Engineering & Technology
SURAMPALEM- 533 437

ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Permanently Affiliated to JNTUK, Kakinada * Approved by AICTE, New Delhi * Accredited by NAAC
Recognized by UGC Under section 2(f) and 12 (B) of UGC Act 1956
ADB ROAD, ADITYA NAGARA, SURAMPALEM-533437

Department of InformationTtechnology

Schedule of MACHINE LEARNING USING PYTHON:

Day-1:

FN Inauguration of the Program and speakers talk about the objectives of the event

AN Machine Learning Basics, Understanding Machine Learning

Day-2:

FN Deep Learning, Python Libraries for Deep Learning

AN Practice session-1

Day-3:

FN Machine Learning Methods, The CRISP-DM Process Model

AN Practice session-2

Day-4:

FN NumPy,Creating Arrays, Pandas

AN Practice session-3

Day-5:

FN Scikit-learn, Tensorflow

AN Practice session-4

Day-6:

FN Time Series Analysis, Processing, Wrangling, andVisualizing Data

AN Data Wrangling, Visualizing with Pandas

Day-7:

FN Binarization, Transforming Ordinal Features

AN One Hot Encoding Scheme, Dummy Coding Scheme

Valedictory

Course Coordinator **Head of the Department**

PRINCIPAL
Aditya College of
Engineering & Technology
SURAMPALEM-533 437