



# 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 Computer Science and Engineering

Date: 31.01.2020.

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" – reg.

It's our greatest pleasure to bring to your kind notice that, we the Department of Mechanical Engineering would like to train our 3<sup>rd</sup> year B.Tech students in the Machine Learning adapted initially, with the help of our staff; as the present world is moving over the machine learning & simulations and also is a part of the Computer Science and Engineering. 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 : G.Kumari ,  
Asst Professor,  
CSE Dept, Pragathi Engineering College

Honorarium : Rs. 10000/-

*forwarded to principal  
M. Sridhar*

Course Coordinator

PRINCIPAL  
Aditya College of  
Engineering & Technology  
SURAMPALEM- 533 437



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Date: 01.02.2020

### CIRCULAR

All the 3<sup>rd</sup> year students are here by informed that a one-week program is arranged to enhance the knowledge on Machine Learning, as per the schedule from 24<sup>th</sup> February, 2020. All interested students can attend the program and utilize the opportunity. The schedule is attached.

Course Coordinator: Dr. R V S LALITHA  
CSE Department

Head of the Department

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## Department of Computer Science and Engineering

### Machine Learning Syllabus

1. Introduction to Machine Learning and its types
2. Regression and its types
3. Perceptron Learning
4. Artificial Neural Networks - Early Models and Backpropagation
5. Decision Trees and Regression Trees
6. Evaluation Measures and ROC curve
7. Random Forests and Bayesian Networks
8. Clustering and Gaussian Mixture models
9. Linear Theory and Reinforcement Learning

Course Coordinator

Head of the Department

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## Department of Computer Science and Engineering

### **Schedule of Machine Learning Syllabus:**

Day-1:

- FN Inauguration of the Program and speakers talk about the objectives of the event
- AN Introduction to Machine Learning and its types

Day-2:

- FN Regression and its types
- AN Perceptron Learning

Day-3:

- FN Artificial Neural Networks - Early Models and Backpropagation
- AN Decision Trees and Regression Trees

Day-4:

- FN Evaluation Measures and ROC curve
- Random Forests and Bayesian Networks
- AN Clustering and Gaussian Mixture models
- Linear Theory and Reinforcement Learning

Day-5:

- FN Practice session & doubts clarification.
- AN Valedictory

Course Coordinator

Head of the Department

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