

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Affiliated to JNTUK, Kakinada) **A NAAC Accredited Institute** An ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution NH-5, Anakapalle – 531002, Visakhapatnam, A.P. **Mobile: +91 9963981111, Website: www.diet.edu.in, E-mail: info@diet.edu.in**

CIRCULAR

Anakapalle Dt: 13-8-2018

Department of Computer Science Engineering is hereby informed that, in view of the feedback received from II & III B.Tech. students of all branches regarding skill enhancement and to improve the expertise of students in Machine Learning, HOD is advised to depute a faculty from CSE to design and develop a suitable course structure in line with advanced topics of MACHINE LEARNING USING PYTHON LIBRARY for working on real time applications to II & III B.Tech. students of all branches with over 30 working hours. Please ensure that this Add-on course helps them to recognize the characteristics of machine learning that make it useful to real-world problems. Make arrangements to deliver the course from next week onwards.

PRINCIPAL

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (Approved by A.I.C.T.E., New Delhi & Affiliated to JNTUK, Kakinada) ANAAC Accredited Institute An ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution NH-5, Anakapalle – 531002, Visakhapatnam, A.P. Mobile: +91 9963981111, Website: www.diet.edu.in, E-mail: info@diet.edu.in

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Dadi Institute of Engineering & Technology



Approved by AICTE & Affiliated to JNTUK NAAC Accredited Institute & Inclusion under Section 2(f) & 12(B) of the UGC Act NH-5, Anakapalle, Visakhapatnam, Andhra Pradesh 9963694444, 9963981111, www.diet.edu.in, info@diet.edu.in

Department of Computer Science & Engineeing

Presents

A Six Week Training Program

on

"Machine Learning Using Python Library"

20/8/2018 to 25/9/2018

Course Instructor

Mr. Ch. Dinesh Kumar Assistant Professor, Department of CSE

Venue: Computer Lab 1, 1st Floor, DIET



About the Institute

Dadi Institute of Engineering & Technology is a top ranked Engineering and Management College affiliated to Jawaharlal Nehru Technological University, Kakinada. The Institute is NAAC Accredited, ISO Certified and also associated with many professional bodies in the field of Engineering, Technology and Management. It strives to promote the highest standards a m o n g the students and enable t h e m to Build a New World. Dadi Institute of Engineering & Technology is distinctive among institutions of higher learning. Founded in 2006 by Sri Dadi Veerabhadra Rao, an academician and former Minister as the first multicultural and co- educational college in Anakapalle which admits only academically promising students.

About CSE Department

he Department of Computer Science and Engineering was established in the year 2006, since inception of the college, with an annual intake of 60 students for B.Tech. programme and subsequently the intake was enhanced to 120 in the year 2007 and to 180 in 2012. As on date the department intake for undergraduate (B.Tech.) is 180 and from the academic year 2020-2021 the department is offering undergraduate courses in trending specializations like Artificial Intelligence & Machine Learning (AI & ML) and Data Science. Department also offers M.Tech. programme namely M.Tech. (CSE) with an annual intake of 18 seats in the year 2011 and the intake has been enhanced to 24 in 2014.

About the course

Students are learning basics of machine learning in the course curriculum. However they need to learn some advanced topics for working on real time applications. The course covers all basic algorithms of Machine learning.



Department of Computer Science Engineering

MACHINE LEARNING USING PYTHON LIBRARY

Course Instructor :

Mr. Ch.Dinesh, Assistant Professor, CSE Department Dadi Institute of Engineering & Technology

Duration :

6 Weeks : 20/8/2018 to 25/9/2018

Overview & Need for the Course:

Students are learning basics of machine learning in the course curriculum. However they need to learn some advanced topics for working on real time applications. The course covers al basic algorithms of Machine learning.

Course Objectives:

- To introduce students to the basic concepts and techniques of Machine Learning.
- To develop skills of using recent machine learning software for solving practical problems.
- To gain experience of doing independent study and research.

Course Outcomes:

Students will be able to:

- Recognize the characteristics of machine learning that make it useful to real-world problems.
- Characterize machine learning algorithms as supervised, semi-supervised, and unsupervised.
- Effectively use machine learning toolboxes.
- Be able to use support vector machines.
- Be able to use regularized regression algorithms.
- Understand the concept behind neural networks for learning non-linear functions.
- Understand and apply unsupervised algorithms for clustering.

- Understand the foundation of generative models.
- Understand the inference and learning algorithms for the hidden Markov model.
- Understand the learning algorithm for hidden Markov model with latent variables.
- Understand algorithms for learning Bayesian networks.
- Understand reinforcement learning algorithms.

Requirements

- ✤ Basics Knowledge on Python.
- ✤ Basics Knowledge on preprocessing

Course Contents

- Module 1 Introduction to Machine Learning
- Module 2 Supervised Learning and Linear Regression
- Module 3 Classification and Logistic Regression
- Module 4 Decision Tree and Random Forest
- Module 5 Naïve Bayes and Support Vector Machine
- Module 6 Unsupervised Learning
- Module 7 Natural Language Processing and Text Mining
- Module 8 Introduction to Deep Learning
- Module 9 Time Series Analysis.

Week 1	Week 2	Week 3
Introduction to ML	Linear Regression	Linear Discriminant Analysis
Reinforcement Learning	Multivariate Regression	Linear Classification
Unsupervised Learning	Partial Least Squares	Logistic Regression
Supervised Learning	Shrinkage Methods	Project

Week 4	Week 5	Week 6
Support Vector Machines	Artificial Neural Networks	Regression Trees
Hinge Loss Formulation	Training and Validation	Decision Trees
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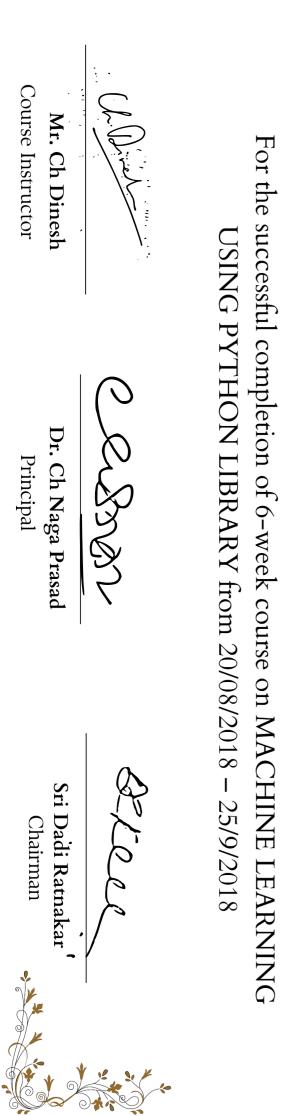
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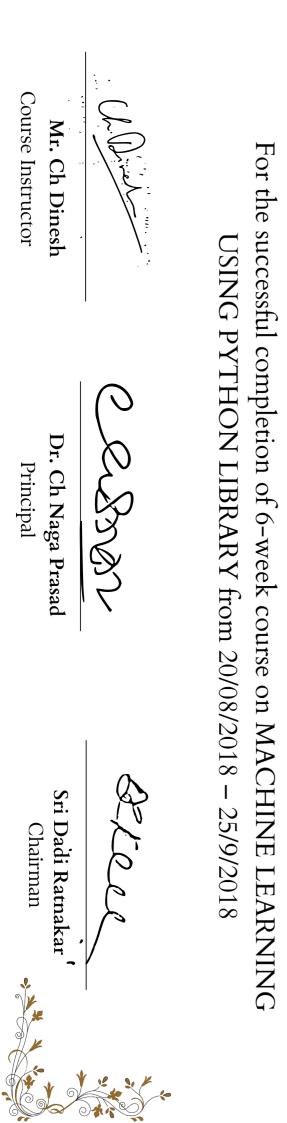
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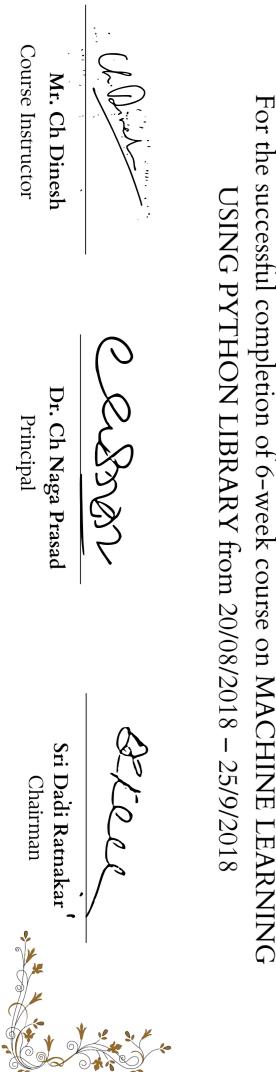
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STUDENT FEEDBACK FORM

Dear Candidate,

Your feedback is critical for the Institute to ensure that we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so that we can serve you better.

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2. The program was helpful in practical enderstanding	1	2	3	(1) 5	good
 I will recommend this course workshop program to relevant conservators across our campus 	1	2	3	4 🕃	Need time Teaching
4. The program was well placed within allotted time	1	2	3	(1) 5	Excllent.
5. The instructor was an effective communicator	1	2	3	(1) 5	

Please return this form to the Course Instructor/Organizer/Coordinator at the end of the workshop/add-on course/Training Program

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