



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



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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 & Engineering

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 among the students and enable them 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

The 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 all 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
Perceptron Learning	Parameter Estimations	Decision Trees Examples

Sl. No.	Roll No.	Name	Parent 1	Parent 2	Parent 3	Parent 4	Parent 5	Parent 6	Parent 7	Parent 8	Parent 9	Parent 10
32	18U45A0206	CHESETTY YAMINI PRASANNA DALISHA	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
33	18U45A0207	DADI SAI SREENU	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
34	18U45A0208	DODDI MANOJ	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
35	18U45A0209	DASARI MANOJ KUMAR	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
36	18U45A0210	DEVADULA ESWARA SARASWATHI	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
37	18U45A0211	EROTHI PURNIMA PRIYANKA	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
38	18U45A0212	ESAMPALLI TARUN KUMAR	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
39	18U45A0213	GOLLAOPUDI MANIKANTA	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
40	18U45A0214	KOCHERLAKOTA SAI MANI KRISHNA	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
41	18U45A0215	MALLA CHARAN TEJA	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
42	18U45A0216	MATHURTHI VENKATESH	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
43	18U45A0217	MEDISETTI KUMAR RAJA	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
44	18U45A0218	NAKKINA DHANA SAI	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
45	18U45A0219	PADALA MURALI SHANKAR	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
46	18U45A0220	PERURI CHANDANA	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
47	18U45A0221	POLMARASETTY DURGA MAHA LAKSHMI	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
48	18U45A0222	POIRI REDDY SRINU	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
49	18U45A0223	PUDI NAVEEN KUMAR	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
50	18U45A0224	RINGALI APPALARAJU	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
51	18U45A0225	SAMUDALA MAHESH	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
52	18U45A0226	SUNKARI SURESH	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
53	18U45A0227	TALARI TEJESWAR	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
54	18U45A0228	YELLAPU HOMESH	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
55	18U45A0229	PENTAKOTA DHARANI PRIYANKA	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
56	18U45A0230	SOPETI AKHIL	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
57	18U45A0231	PENTAKOTA MOUNIKA	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
58	18U45A0232	KANDREGULA MANJUSHA	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
59	18U45A0233	VANATAKU ANYAPPA SWAMI	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
60	18U45A0234	YERIPALLI DILEEP KUMAR	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
61	18U45A0235	THOTA PURNA CHAND	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
62	18U45A0236	PAJLA LALITHA	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
63	18U45A0237	GANDI KASUBABU	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
64	18U45A0238	DADI MADHAN KUMAR	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
65	18U45A0239	CHINNI NARAYANA SATYA ADI SEKHAR	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai
66	18U45A0240	ADAPA BHARATHI	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai	D Sai

Classroom





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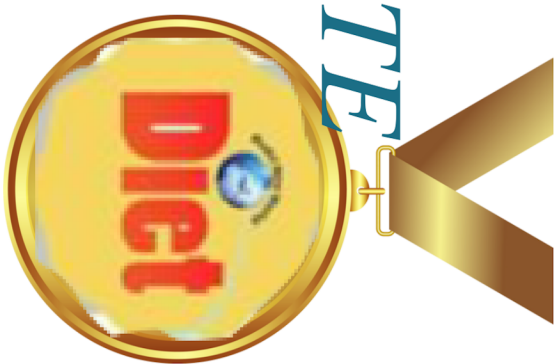
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COURSE COMPLETION CERTIFICATE

This Certificate is given to

KARRI MOUNIKA



For the successful completion of 6-week course on MACHINE LEARNING

USING PYTHON LIBRARY from 20/08/2018 – 25/9/2018

Mr. Ch Dinesh

Course Instructor

Dr. Ch Naga Prasad

Principal

Sri Dadi Ratnakar

Chairman





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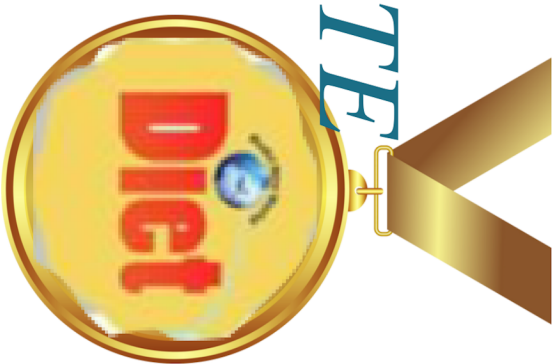
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COURSE COMPLETION CERTIFICATE

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M RAMMESH



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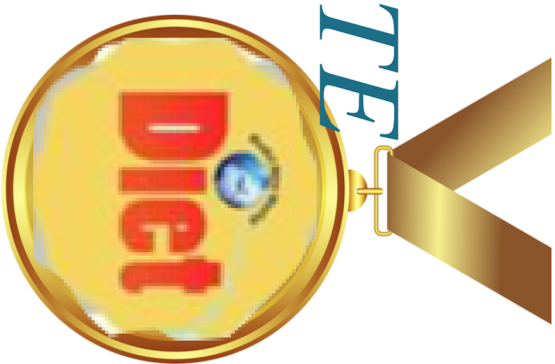
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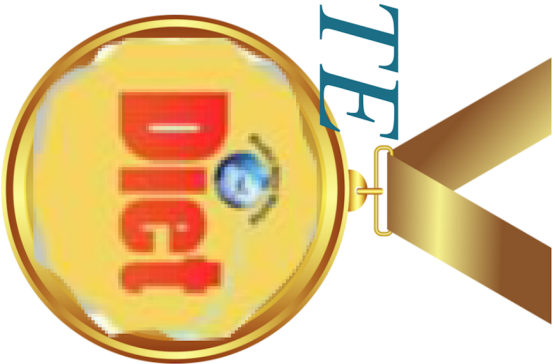
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GALLA DEEPA



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Course Instructor

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Principal

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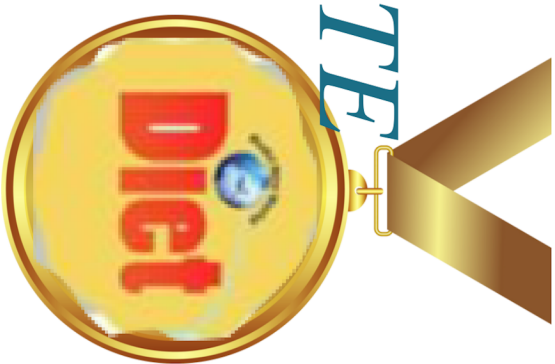
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STUDENT FEEDBACK FORM

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.

Title of the Activity: Machine Learning Using Python

Date/Duration: 20/8/2018 - 25/8/2018 Instructor/Coordinator: Mr. Ch. Dinesh

- | | | | | | | |
|---|---|---|---|---|---|-----|
| 1. The content was as described in Publicity Material | 1 | 2 | 3 | 4 | 5 | (5) |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | 4 | 5 | (4) |
| 3. I will recommend this course/workshop program to relevant conservators across our campus | 1 | 2 | 3 | 4 | 5 | (5) |
| 4. The program was well placed within allotted time | 1 | 2 | 3 | 4 | 5 | (4) |
| 5. The instructor was an effective communicator | 1 | 2 | 3 | 4 | 5 | (4) |

Feedback/Suggestions

Real time
good
Need time
Teaching
Excellent.

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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|---|---|---|---|---|---|-----|
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Feedback/Suggestions

- good,
- Real time
application

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