



MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)
(An UGC Autonomous Institution, Affiliated to JNTUH, Hyderabad Accredited 2nd time by NAAC
with 'A' Grade & NBA and Recipient of World Bank Assistance under TEQIP-II S.C. 1.1)
Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad,
Telangana State – 500100
www.mrec.ac.in

Department of Computer Science and Engineering

CIRCULAR

Date: 08/05/2021

All the students are hereby informed that Value Added Course on “**Machine Learning**” is being organized by the **Computer Science and Engineering** department on dated 14th May 2021 to 20th Jun 2021. The resource person for the course is **Mr. Shyam Sunder, IBM**

Students are advised to register their names to the programme coordinator “**Mr. M.Srikanth, Asst Prof, CSE Dept**”, on or before 12/05/2020 and utilize this opportunity to enhance their skills by attending the programme.

The detailed schedule of the programme will be displayed in the notice board.

Head of the Department

Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500 100

Copy to:

- 1) Circulation in Students classroom
- 2) All HOD's
- 3) Notice Boards
- 4) PA to principal for filing.

Head of the Department
Dept. of Computer Science and Engineering
Malla Reddy Engineering College (Autonomous)
Secunderabad, Telangana State - 500 100.

About the Institution

Malla Reddy Engineering College (Autonomous) is one of the reputed engineering colleges in Hyderabad, Telangana. **MREC (A)** is part of Malla Reddy Group of Institutions (MRGI), founded by Sri. Ch. Malla Reddy, currently Hon'ble Minister, Labor and Employment, Factories, Women and Child Welfare and Skill Development, Govt. of Telangana State. The college is situated in a serene, lush green environment in Maisammaguda, Gundlapochampally, Medchal (M), Medchal-Malkajgiri District Telangana - 500100.

The college was established in 2002 and is an autonomous institution approved by UGC and affiliated to JNTUH. The college is re-accredited by NAAC with 'A' Grade (II Cycle) and was conferred autonomous status by JNTUH in 2011 and by UGC in 2014 for a period of 6 years. Our eligible UG and PG programs received NBA accreditation and some of them received reaccreditation too. The college caters to wide ranging aspirations and goals of student communities by offering new courses in UG courses provides PG courses and MBA along with programs in various streams of Engineering & Technology and Management. It boasts of world-class infrastructure and well-equipped laboratories in all departments and is skillfully and smartly guided by **Dr. S. Sudhakara Reddy, Principal, MREC (A)** who have a rich teaching Mr. and industrial experience.

Advisory Committee

Chief Patrons: Sri. Ch. Malla Reddy, Minister-Telangana State-India.

Founder Chairman

Malla Reddy Group of Institutions

Patrons:

Sri. Ch. Mahender Reddy

Secretary, MRGI

Dr. Ch. Bhadra Reddy

President, MRGI

Co-Patrons:

Dr. A. Ravinderaa

Principal, MREC (A)

Convener:

Dr. Lakshmi pathi Anatha

HOD CSE

Coordinator:

Mr. M. Srikanth

Assistant Professor, CSE

Resource Person: Mr. Shyam sunder, IBM

Organizing Committee:

Dr. G. Charles Babu, Professor, CSE

Dr. S. Dhanalakshmi, Professor, CSE

Mr. Sanjeeva Polepaka, Associate Professor, CSE

Mr. K Arun Kumar, Assistant Professor, CSE

Ms. S. Sandhya Rani, Assistant Professor, CSE

Mr. Md. Inayathulla, Assistant Professor, CSE

Mr. A. Lakshman, Assistant Professor, CSE

Mr. M. Srikanth, Assistant Professor, CSE

Mrs. G. Vamshi Krishna, Assistant Professor, CSE

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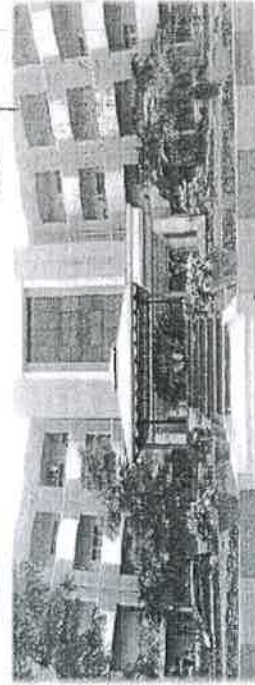
*A One-Week Skill development Course
(Value added Course)*

On

"Machine Learning"

(14th May 2021 to 20th Jun, 2021)

(02.30 PM to 04.15 PM)



Organized by

Department of

Computer Science and Engineering

MALLA REDDY ENGINEERING COLLEGE

(AUTONOMOUS) MAIN CAMPUS

An UGC Autonomous Institution, Approved by

AICTE & Affiliated to JNTUH-Hyderabad

Reaccredited by NAAC with 'A' Grade (II Cycle)

Maisammaguda (H), Gundlapochampally (V),

Medchal (M), Medchal - Malkajgiri District

Telangana - 500100, India.

Registration Form

About the Department

The Department of CSE was started in the year 2005 with a vision of imparting high-quality education to suite the global standards in Computer science and Engineering. The department has got highly qualified & committed faculty members supported by dedicated technical staff.

The department has its own library and sophisticated laboratories not only to suite curriculum requirements but also to serve research needs such as Computer Networks, Data Mining, Software Engineering, Image processing & Cloud Computing. Workshops, software simulation etc.

The department formed CSI and ISTE student branch for the benefit of students and faculty by conducting technical Conferences, workshops, FDPs and Guest lectures.

Overview of the Programme

Machine learning is an application of AI that is based on the idea that when machines are provided new data, they can learn, grow, and develop on their own without explicit human intervention/programming.

The primary goal of the *workshop* was to bring together providers of *machine learning* toolkits and framework providers with Web platform practitioners to enrich the Open Web Platform with better foundations for *machine learning*.

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Objectives of the Programme

This course creates exposure in identifying the various components in Machine Learning.

To make the students understand algorithms of Machine learning.

To provide the knowledge in supervised and unsupervised methods.

To provide the knowledge and assist the participants in developing new concepts of Machine Learning.

Topics to be covered

- Introduction of Machine learning
- Supervised methods.
- Unsupervised methods.
- Reinforcement learning
- Sample programs using R Tool
- Hands-on experience using R Tool

Certificate

After successful completion of the course the certificates shall be issued to the participants.

Outcome of the program,

On completion of this course, participants will be able to have a good understanding of the fundamental issues and challenges of machine learning: data, model selection, model complexity, etc.

Appreciate the underlying mathematical relationships within and across Machine Learning algorithms and the paradigms of supervised and un-supervised learning.



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Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad,
Telangana State – 500100, www.mrec.ac.in

MACHINE LEARNING SYLLABUS

Course code: VACCS06

Duration of the course: (hrs):36

Objective of the course:

- The main goal of this course is to help students learn, understand.
- practice machine learning approaches, which include the study of modern computing big data technologies.
- scaling up machine learning techniques focusing on industry applications.
- conceptualization and summarization of big data and machine learning, trivial data versus big data, big data computing technologies, machine learning techniques, and scaling up machine learning approaches

Syllabus

Unit-1

Total hrs: 6

Introduction to ML - Definition of learning systems, Goals and applications of machine learning. Aspects of developing a learning system: training data, concept representation, function approximation.

Inductive Classification - The concept learning task, Concept learning as search through a hypothesis space, General-to-specific ordering of hypotheses, Finding maximally specific hypotheses, Version spaces and the candidate elimination algorithm. Learning conjunctive concepts, The importance of inductive bias.

Decision Tree Learning - Representing concepts as decision trees, Recursive induction of decision trees, Picking the best splitting attribute: entropy and information gain, Searching for simple trees and computational complexity, Occam's razor. Overfitting, noisy data, and pruning.

Unit-2

Total hrs: 6

Ensemble Learning - Using committees of multiple hypotheses, Bagging, boosting, and DECORATE, Active learning with ensembles.

Experimental Evaluation of Learning Algorithms - Measuring the accuracy of learned hypotheses, Comparing learning algorithms: cross-validation, learning curves, and statistical hypothesis testing.

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Computational Learning Theory - Models of learnability: learning in the limit; probably approximately correct (PAC) learning. Sample complexity: quantifying the number of examples needed to PAC learn. Computational complexity of training. Sample complexity for finite hypothesis spaces. PAC results for learning conjunctions, kDNF, and kCNF. Sample complexity for infinite hypothesis spaces, Vapnik-Chervonenkis dimension.

Unit-3

Total hrs: 5

Rule Learning: Propositional and First-Order - Translating decision trees into rules. Heuristic rule induction using separate and conquer and information gain. First-order Horn-clause induction (Inductive Logic Programming) and Foil. Learning recursive rules. Inverse resolution, Golem, and Progol.

Artificial Neural Networks - Neurons and biological motivation. Linear threshold units. Perceptrons: representational limitation and gradient descent training. Multilayer networks and backpropagation. Hidden layers and constructing intermediate, distributed representations. Overfitting, learning network structure, recurrent networks.

Support Vector Machines - Maximum margin linear separators. Quadratic programming solution to finding maximum margin separators. Kernels for learning non-linear functions.

Unit-4

Total hrs: 6

Bayesian Learning - Probability theory and Bayes rule. Naive Bayes learning algorithm. Parameter smoothing. Generative vs. discriminative training. Logistic regression. Bayes nets and Markov nets for representing dependencies.

Instance-Based Learning - Constructing explicit generalizations versus comparing to past specific examples. k-Nearest-neighbor algorithm. Case-based learning.

Text Classification - Bag of words representation. Vector space model and cosine similarity. Relevance feedback and Rocchio algorithm. Versions of nearest neighbor and Naive Bayes for text.

Unit-5

Total hrs: 7

Clustering and Unsupervised Learning - Learning from unclassified data. Clustering. Hierarchical Agglomerative Clustering. k-means partitional clustering. Expectation maximization (EM) for soft clustering. Semi-supervised learning with EM using labeled and unlabeled data.

Language Learning - word-sense disambiguation, sequence labeling. Hidden Markov models (HMM's). Viterbi algorithm for determining most-probable state sequences. Forward-backward EM algorithm for training the parameters of HMM's. Use of HMM's for speech recognition, part-of-speech tagging, and information extraction. Conditional random fields (CRF's). Probabilistic context-free grammars (PCFG). Parsing and learning with PCFGs. Lexicalized PCFG.

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under TEQIP-II S.C. 1.1)

Maisammaguda (H), Medchal-Malkajgiri District,
Telangana State – 500100

Department: CSE

**Course Name: Machine
Learning**

**Date: 14th May 2021 to 20th
Jun 2021**

**Value Added Courses
List of Students enrolled and completed**

Sl.No	Roll No	Name of the students	Year/ Semester	Courses completed
1	18J41A0501	ADLA RAJA REDDY	III/II	YES
2	18J41A0502	ARE CHAKRI	III/II	YES
3	18J41A0503	ARUPULA KISHORE	III/II	YES
4	18J41A0504	BALUSANI SRICHARAN	III/II	YES
5	18J41A0505	BEJJANKI JYOTHI	III/II	NO
6	18J41A0506	BHUKYA BALARAJU	III/II	YES
7	18J41A0507	BIDAR PRANEEL	III/II	YES
8	18J41A0508	BOLLAMPALLI RAKESH	III/II	YES
9	18J41A0509	BOYA NITHISHA	III/II	YES
10	18J41A0510	CHALVADI DHANUSH	III/II	YES
11	18J41A0511	CHAMARTHI KALYAN VARMA	III/II	YES
12	18J41A0512	CHILLAKANTI L NAGA SATYA NARASIMHA	III/II	YES
13	18J41A0513	DATHRIKA KARTHIK	III/II	YES
14	18J41A0514	DHONDI AKSHAYA	III/II	YES
15	18J41A0515	DODDIGUNTA DINESH	III/II	YES
16	18J41A0516	GADDAM ABHIRAM	III/II	YES
17	18J41A0517	GUJJARI ANIRUDH	III/II	YES
18	18J41A0518	GUMMAPU JOHN MARY	III/II	YES
19	18J41A0519	GUNDETI SRIJA REDDY	III/II	YES
20	18J41A0520	GURIJA SHRAVAN	III/II	YES
21	18J41A0521	JUTTA TEJA SRI GUNA SAI SUMA	III/II	YES
22	18J41A0522	KAGITAPU ROHITH	III/II	YES
23	18J41A0523	KALANGI PURUSHOTHAM	III/II	YES
24	18J41A0524	KALPURE NEEMA	III/II	YES
25	18J41A0525	KALYANI JAZI BHANUTEJA	III/II	YES
26	18J41A0526	KANUMATHI REDDY SUJITH	III/II	YES
27	18J41A0527	KANURI JAYA VARADATTA REVANTH	III/II	YES
28	18J41A0528	KATHI VAMSHI KRISHNA	III/II	YES

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29	18J41A0529	KATRAVATH GANGA	III/II	YES
30	18J41A0530	KONA RAMYA	III/II	YES
31	18J41A0531	KOPPULA SAI PHANI	III/II	YES
32	18J41A0532	KOTTE HEMANTH	III/II	NO
33	18J41A0533	KUTHURU KARTHIK	III/II	YES
34	18J41A0534	MADGULA UDAY KUMAR	III/II	YES
35	18J41A0535	MADHIRA SAINATH	III/II	YES
36	18J41A0536	MALLEPALLI HIMAJAREDDY	III/II	YES
37	18J41A0537	MOHAMMED TABREZ	III/II	YES
38	18J41A0538	NIMMAGADDA SRI HARSHA CHAITANYA	III/II	YES
39	18J41A0539	OMKAR BIDARKAR	III/II	YES
40	18J41A0540	P SAI ABHIJAT	III/II	YES
41	18J41A0541	PEDDI SUNAYANI	III/II	YES
42	18J41A0542	PENDRU MEGHANA REDDY	III/II	YES
43	18J41A0543	PODISHETTI PAVAN	III/II	YES
44	18J41A0544	POLISSETTY SHRUTHI	III/II	YES
45	18J41A0545	PULLAKHANDAM APARNA	III/II	YES
46	18J41A0546	RASAKONDA ADVETHA	III/II	YES
47	18J41A0547	RAVULA TEJA SRI	III/II	YES
48	18J41A0548	SAI CHARAN REDDY ASHANNAGARI	III/II	YES
49	18J41A0549	SAMALA SHRUTHI	III/II	YES
50	18J41A0550	SARDAR DALBEER SINGH	III/II	YES
51	18J41A0551	SARVA HRUTHIK NARAYAN	III/II	YES
52	18J41A0552	SRIYAPUREDDY SNEHA REDDY	III/II	YES
53	18J41A0553	T SAI ANURAG REDDY	III/II	YES
54	18J41A0554	THAMMINENI ASHA NIKITHA	III/II	YES
55	18J41A0555	THUMMA PRANATHI	III/II	YES
56	18J41A0556	TRISHA VUDEPU	III/II	YES
57	18J41A0557	VADLAMUDI NAVEEN	III/II	YES
58	18J41A0558	VIDYACHARAN DUNDIGAL	III/II	YES
59	18J41A0559	YATELLI PRANAY PAUL	III/II	YES
60	18J41A0560	ZEBA TARANNUAM	III/II	YES
61	18J41A0561	ABDUL SAMAD	III/II	YES
62	18J41A0562	AKKINAPALLI SAIDEPAK	III/II	YES
63	18J41A0563	ANANDITA THAKUR	III/II	YES
64	18J41A0564	ANANTHU VENKATA NAGA SAI SUMANTH	III/II	YES
65	18J41A0565	ANNOLLA TULASI	III/II	YES
66	18J41A0566	ANUSHA LILY MATHIAS	III/II	YES
67	18J41A0567	BANOTHU GEETHANJALI	III/II	YES

Review
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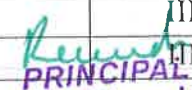
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68	18J41A0568	BAZAR ANKIT GOUD	III/II	YES
69	18J41A0569	BEGARI PRAVEEN KUMAR	III/II	YES
70	18J41A0570	BHUKYA SONIYA	III/II	YES
71	18J41A0571	BOGGARAPU NIKHILESH	III/II	YES
72	18J41A0572	BOLLAMPALLY VINEETH RAJ	III/II	YES
73	18J41A0573	BUDHA RAHUL RISHWANTH	III/II	YES
74	18J41A0574	CHINTALA ASHA SREE	III/II	YES
75	18J41A0575	CHITTA SRILEKHA	III/II	YES
76	18J41A0576	D AKSHAJAA	III/II	NO
77	18J41A0577	DUGGE RAVITEJA	III/II	YES
78	18J41A0578	GADDAM AKSHATH REDDY	III/II	YES
79	18J41A0579	GAJJELA PRASHANTH	III/II	YES
80	18J41A0580	GOPU SHINY TARA	III/II	YES
81	18J41A0581	GORINKALA LAXMAN KUMAR	III/II	YES
82	18J41A0582	GOTTE ANIRUDH	III/II	YES
83	18J41A0583	INDHANA MADHU RAMYASREE	III/II	YES
84	18J41A0584	K PAVANI KRISHNA	III/II	YES
85	18J41A0585	KAMMARI RAMYA	III/II	YES
86	18J41A0586	KAPILAVAI SIVA NAGA SAI LOKESH	III/II	YES
87	18J41A0587	KASULADEVI NANDINI	III/II	YES
88	18J41A0588	KATURI AKSHAY	III/II	YES
89	18J41A0589	KESARI SREE	III/II	YES
90	18J41A0590	KHEMSHETTE KAPIL	III/II	YES
91	18J41A0591	KONGANTI RAM KUMAR	III/II	YES
92	18J41A0592	KUMBHAM SAI CHARAN	III/II	YES
93	18J41A0593	M R NILESH	III/II	YES
94	18J41A0594	MAMULLA HARISH	III/II	YES
95	18J41A0595	MANTHU SUNIL	III/II	YES
96	18J41A0596	MEDASANI JAYALAKSHMI	III/II	YES
97	18J41A0597	MEDIKAYALA GOURI SHANKAR	III/II	YES
98	18J41A0598	MERUGA PRIYANKA	III/II	YES
99	18J41A0599	MOHAMMED MUNAWAR HUSSAIN	III/II	YES
100	18J41A05A0	MUPPIDI YAGAPRIYA	III/II	YES
101	18J41A05A1	PADAMATI SUJATHA	III/II	YES
102	18J41A05A2	PAPPULA RITHISH REDDY	III/II	YES
103	18J41A05A3	PEDDI BHARATH KUMAR	III/II	YES
104	18J41A05A4	PETA GOPIKASIRI	III/II	YES
105	18J41A05A5	POTHARAM MOUNIKA	III/II	YES
106	18J41A05A6	PULIGADDA ROHIT	III/II	YES

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107	18J41A05A7	REDDY SAI SUMANTH	III/II	YES
108	18J41A05A8	RITESH GOURAVARAM NAVALUR	III/II	YES
109	18J41A05A9	SAI ARAVIND MULA	III/II	YES
110	18J41A05B0	SAINNI VIJAYKANTH	III/II	YES
111	18J41A05B1	SANABOINA NAVEEN	III/II	YES
112	18J41A05B2	SATTARAPU SIDDARTH	III/II	YES
113	18J41A05B3	SHASHANK REDDY ANNARAPU	III/II	YES
114	18J41A05B4	SIRUSALA CHANDRAKANTH	III/II	YES
115	18J41A05B5	TADIKONDA GNANDEEP	III/II	YES
116	18J41A05B6	TURAKA TEJASWINI	III/II	YES
117	18J41A05B7	VALETI LOKESH	III/II	YES
118	18J41A05B8	VANKUDOTHU PRAVEEN	III/II	YES
119	18J41A05B9	Y NISHANT	III/II	NO
120	18J41A05C0	YAPA MOUNIKA	III/II	YES
121	18J41A05C1	ABHINAV BORAD	III/II	YES
122	18J41A05C2	ABHISHEK BOMMENA	III/II	YES
123	18J41A05C3	ADDAGADA BALAKRISHNA	III/II	YES
124	18J41A05C4	B G ASLAS KUMAR	III/II	YES
125	18J41A05C5	B RUCHITHA	III/II	YES
126	18J41A05C6	BANDARU ANVITHA	III/II	YES
127	18J41A05C7	BASSETTI SAITEJA	III/II	YES
128	18J41A05C8	BATHINI REETHIKA	III/II	YES
129	18J41A05C9	BEGARI PAVAN KUMAR	III/II	YES
130	18J41A05D0	CHAPETTI ANVESH REDDY	III/II	YES
131	18J41A05D1	CHINTHAPALLY ESHWAR SAI RAGHAVA	III/II	YES
132	18J41A05D2	DODDIGUNTA VAMSIKRISHNA	III/II	YES
133	18J41A05D3	DUGGIRALA DURGA RAM PRASAD	III/II	YES
134	18J41A05D4	DUTTA SAI SRAVANI	III/II	YES
135	18J41A05D5	GADDAM AKHILA	III/II	YES
136	18J41A05D6	GADDAM ASHVITHA	III/II	YES
137	18J41A05D7	GADDAM LOKESH REDDY	III/II	YES
138	18J41A05D8	GADEPAGA SPARSHA	III/II	YES
139	18J41A05D9	GANGULA MANASA	III/II	YES
140	18J41A05E0	GOPALDAS SUSMITHA	III/II	YES
141	18J41A05E1	GOPARAJU DHIRUVA TEJA RAO	III/II	YES
142	18J41A05E2	GUDIMELLA AMRESH	III/II	NO
143	18J41A05E3	GULLA HEMANTH	III/II	YES
144	18J41A05E4	J HEMANTH	III/II	YES
145	18J41A05E5	JIDIGE SANJANA KRISHNA	III/II	YES


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146	18J41A05E6	JOGIPET ACHYUTH	III/II	YES
147	18J41A05E7	K SHRISTI	III/II	YES
148	18J41A05E8	KADURLA SRINIVAS	III/II	YES
149	18J41A05E9	KATINEEDI BINDHU	III/II	YES
150	18J41A05F0	KATRAVATH PRAKASH	III/II	YES
151	18J41A05F1	KUSNAM SAI NARSIMHA REDDY	III/II	YES
152	18J41A05F2	MANGILIPALLY HARI PRASAD	III/II	YES
153	18J41A05F3	MANNE SRINIDHI	III/II	YES
154	18J41A05F4	MANNEPALLI SAMUEL JOHNSON	III/II	YES
155	18J41A05F5	METLA VENKATA SAI CHANDRA SHEKAR	III/II	YES
156	18J41A05F6	MIRYALA SWATHI	III/II	YES
157	18J41A05F7	MOHAMMED FATHEBABA	III/II	YES
158	18J41A05F8	MOHAMMED ISMAIL	III/II	NO
159	18J41A05F9	MUKKU SHIRLEY	III/II	YES
160	18J41A05G0	MUNJALA SAI VARDHAN	III/II	YES
161	18J41A05G1	MUSHAM VAMSHI KRISHNA	III/II	YES
162	18J41A05G2	MUTHOJU VASANTH	III/II	YES
163	18J41A05G3	N YESWANTH REDDY	III/II	YES
164	18J41A05G4	PAILA JEESHITHA	III/II	YES
165	18J41A05G5	PALLAMREDDY PRAHARSHA REDDY	III/II	YES
166	18J41A05G6	POTLAPALLY SAI CHARAN	III/II	YES
167	18J41A05G7	POTRU RAMKI	III/II	YES
168	18J41A05G8	REVOORI PRANEETH REDDY	III/II	YES
169	18J41A05G9	S PRAMATH PARASHAR	III/II	YES
170	18J41A05H0	SHAIK HUSNA SHAHEEN	III/II	YES
171	18J41A05H1	SHAIK NOUSHEEN SULTANA	III/II	YES
172	18J41A05H2	SHIVAM SINGH	III/II	YES
173	18J41A05H3	SK KAREEM BABA	III/II	YES
174	18J41A05H4	SOMANNAGARI RITHIKA	III/II	YES
175	18J41A05H5	TAUQIR PASHA	III/II	YES
176	18J41A05H6	THATI VAMSHI KRISHNA	III/II	YES
177	18J41A05H7	THIPPALLI LAKSHMAN	III/II	YES
178	18J41A05H8	UPPIJINI JITHIJA SAI SUSMITHA	III/II	YES
179	18J41A05H9	VAKULABHARANAM PREM SAI	III/II	YES
180	18J41A05J0	VISHNU VARDHAN REDDY MOTHE	III/II	YES
181	18J41A05J1	AENUGU SUPRITH REDDY	III/II	YES
182	18J41A05J2	ANUJ KUMAR GAURAV	III/II	YES


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VAC- MACHINE LEARNING (ML)- Summary

15.06.2021

Course duration: 14th May 2020 to 20th Jun 2020

Overview of the Course

This ML course is ideal for working professionals with programming knowledge. It covers key concepts like Statistics, Machine Learning, Deep Learning, NLP, and Reinforcement Learning. This program is delivered through our interactive learning model with live sessions by global practitioners, labs, and industry projects.

The main objective of this programme is 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.

The speaker also covered the following topics:

- Introduction to Programming
- Data Structures and Algorithms
- Machine Learning & Deep Learning

The primary purpose of **machine learning** is to discover patterns in the user data and then make predictions based on these and intricate patterns for answering business questions and solving business problems. **Machine learning** helps in analysing the data as well as identifying trends

After successful completion of the course the certificates are issued to the participants

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VAC MEACHINE LEARING



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CERTIFICATE OF COMPLETION

This is to certify that MR/MS.ADLA RAJA REDDY bearing Roll No. 18J41A0501 has successfully completed Certificate / Value Added Course / Workshop in MECHINE LEARNING conducted by the Department of Computer Science and Engineering from 14/05/2021-20/06/2021.

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This is to certify that MR/MS ARE CHAKRI bearing Roll No. 18J41A0502 has successfully completed Certificate / Value Added Course / Workshop in MECHINE LEARNING conducted by the Department of Computer Science and Engineering from 14/05/2021-20/06/2021.

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This is to certify that Mr./Ms. ARUPULA KISHORE bearing Roll No. 18J41A0503 has successfully completed Certificate / Value Added Course / Workshop in MECHINE LEARNING conducted by the Department of Computer Science and Engineering from 14/05/2021-20/06/2021.


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This is to certify that Mr./Ms. BALUSANI SRICHARAN bearing Roll No.

18J41A0504 has successfully completed Certificate / Value Added Course / Workshop in

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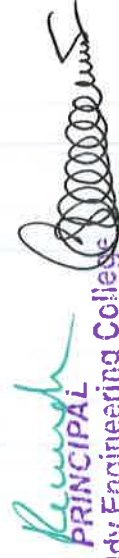


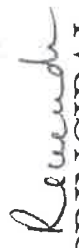
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This is to certify that Mr./Ms. BHUKYA BALARAJU bearing Roll No. 18J41A0506 has successfully completed Certificate / Value Added Course / Workshop in MECHINE LEARNING conducted by the Department of Computer Science and Engineering from 14/05/2021-20/06/2021.


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This is to certify that Mr./Ms. BIDAR PRANEEL bearing Roll No. 18J41A0507 has successfully completed Certificate / Value Added Course / Workshop in MECHINE LEARNING conducted by the Department of Computer Science and Engineering from 14/05/2021-20/06/2021.


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This is to certify that Mr./Ms. BOLLAMPALLI RAKESH bearing Roll No.

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This is to certify that Mr./Ms. BOYA NITHISHA bearing Roll No. 18J41A0509 has successfully completed Certificate / Value Added Course / Workshop in MECHINE LEARNING conducted by the Department of Computer Science and Engineering from 14/05/2021-20/06/2021.

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This is to certify that Mr./Ms. CHALVADI DHANUSH bearing Roll No. 18J41A0510 has successfully completed Certificate / Value Added Course / Workshop in MECHINE LEARNING conducted by the Department of Computer Science and

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This is to certify that Mr./Ms. CHAMARTHI KALYAN VARMA bearing Roll No.

18J41A0511 has successfully completed Certificate / Value Added Course / Workshop in

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