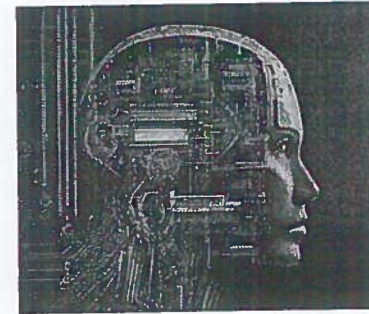# RISE KRISHNA SAI GANDHI GROUP OF INSTUTIONS:ONGOLE

Certificate program
on
"Artificial Intelligence
using
Machine learning"

04th **OCTOBER** 2021 TO 08th **OCTOBER** 2021

Mr.N.Narendra

Director, Application domains\Project Management.

Vijayawada.

ORGANIZED BY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science and Engineering

Valluru,

Date: 01-10-2021.

To

N. Narendra,
Director, Application domains\Project Management,
Vijayawada.

Dear Sir,

Subject: A letter of Invitation to conduct a 5 Day Certificate program on "Artificial

Intelligence with Machine Learning" - Reg.

Greetings from RISE Krishna Sai Gandhi Group of Institutions, Ongole

The RISE Institutions started functioning from the academic year 2009-10 and offering undergraduate courses in several engineering branches namely CE, CSE, ECE, EEE and ME.

As per the discussion with Mr. P. Isaac Paul, Professor & HOD, CSE Department of our Institute, I hereby take this opportunity to invite you to conduct the Certificate program on **Artificial Intelligence with Machine learning** " From 04-10-2021 to 08-10-2021.

You are requested to interact and provide guidance to our III B.Tech students, who are looking forward to their bright career ahead. I will feel honored by your gracious presence at our organization. I believe that your lecture will help our students and faculty members to explore knowledge.

Thanking you in anticipation.

Yours sincerely,

Principal

PRINCIPAL
RISE KRISHNA SAI GANDHI
GROUP OF INSTITUTIONS
VALLURU:: ONGOLE

PRINCIPAL
RISE KRISHNA SAI GANDHI
GROUP OF INSTITUTIONS
ONGOLE.

N. Narendra

Managing Director

Personal Summary

N. Narendra has a record of organizing Institutional Industry oriented up-gradation programs for undergraduates. Experienced in delivering recent trend technologies to the personnel in vivid methodologies. Providing a lawn of possibilities in the specified area which strengthen the personnel in growing the skills required for their success in the present day competence. He has experience as a guest lecturer, assistant professor and a research fellow. His main interest in this has been to prove the potential and ability of the personnel.

Professional Summary

- Delivered services as Guest Lecturer for "ARTIFICIAL INTELLIGENCE WITH MACHINE LEARNING" in Andhra University College of Engineering.
- Worked as Assistant Professor in couple of Engineering Colleges.
- As Junior Research Fellow in Defence Research & Development Laboratory.

Areas of Expertise

- **Product Development:** Evolving modules that enable a final product meeting the End- User requirements and facilitate easy utility of the product
- **Project Management:** Maintaining strategic planning and supporting the team in delivering Robust Models by providing employ friendly platform.
- **Organizing Training Sessions:** Planned tabulation for training and hands on expertise for the personnel under training.

Professional Skills and Competencies

- Strong knowledge on Software tools like Mentor- Graphics required for ARTIFICIAL INTETLLIGENCE.

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- Good knowledge on Software design and development includes AI Application in E-Commerce, Education, Lifestyle, Navigation Robotics, Healthcare, Agriculture, Gaming, Automobiles,Social Media, Marketing,

Key Roles

- Academic Director for KR's Educational Society.
- Coordinator for Technical Symposium in Holy Mary Group of Institutions.

Qualification

Post Graduation (M.S) in Computer Technology

Bachelor of .Tech(CSE)

References - Available on Request.

PRINCIPAL
RISE KRISHNA SAI GANDHI
GROUP OF INSTITUTIONS
VALLURU, ONGOLE.

A FIVE DAY CERTIFICATE PROGRAMME ON

"Artificial Intelligence using Machine Learning "

04th – 08th OCT- 2021.

Coordinator

Mr.K.NAGA SURESH
Asst..prof

Organized by

Department of Computer Science and Engineering

RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS
(Approved By AICTE-NEW DELHI, Affiliated To JNTUK KAKINADA)
(NBA accredited ECE, EEE, and CE & ME)
An ISO 9001:2015 Certified Institute
NH-16, Valluru, Ongole,
Prakasam District, A.P-523272
Phone : +91 99662 72111
mail id : rise_gandhi@yahoo.com

ORGANIZING COMMITTEE

Chief Patrons

Sri SIDDA. VENKATESWARA RAO
Chairman

Sri I. C. RANGAMANNAR
Hon'ble Chairman

Sri SIDDA. HANUMANTHA RAO
Secretary

Sri SIDDA. BHARATH
Treasurer

Patron

Prof. Dr. K.V.SUBRAHMANYAM
Principal

Coordinator

Mr.K.NAGA SURESH
Asst.prof

PRINCIPAL
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GROUP OF INSTITUTIONS
VALLURU:: ONGOLE.

STUDENT REGISTRATION FORM

Name   : ....

Gender   : ....

Department : ....

Institution : ....

Address for Communication.

....

....

....

PIN   :............................

EMAIL   :............................

MOBILE NO. : ....

About RISE:-

RISE KRISHNA SAI Gandhi Group of Institutions is located in the outer suburb of the calm town, Ongole in Prakasam district in Andhra Pradesh. RISE KRISHNA SAI Gandhi Group of Institutions offers unparalleled Engineering, Management and Computer Education.

The most competent and dedicated technical and human resources in the campus sharpen students and their skills. They, thereby, shall be sure to make the greatest possible strides both in their career and life!

The Institution was established on 5th October 2009 by RISE which stands for Rural Institute of Social and Economic Empowerment.

The institution is approved by AICTE, New Delhi and Govt. of Andhra Pradesh and is affiliated to Jawaharlal Nehru Technological University, Kakinada (JNTUK).

This world class institute with global standards offers courses at the Undergraduate level in five areas (CE, ME, EEE, ECE, CSE) of engineering, at the Post Graduate level in two areas (MBA & MCA)

About Department:-

The department of Computer Science Engineering was established in 2009 with an intake of 60 students in the UG programmer.

The intake was enhanced to 120 in 2010 with highly qualified and experienced faculty and has good infrastructural facilities and is equipped with full-fledged laboratories. The department also has audiovisual facilities with sufficient LCD and OHP's for effective teaching.

The staff members are deputed to participate in workshops, conferences and refresher courses to keep in pace with recent developments in the field of Computer Science & Engineering

Objectives of the Programme:-

The goals of artificial intelligence include computer-enhanced learning, reasoning, and perception.

AI is being used today across different industries from finance to healthcare. Weak AI tends to be simple and single-task oriented, while strong AI carries on tasks that are more complex and human

Course Contents:-

Introduction: What to Expect from AI
History of AI from 40s - 90s,

History of AI in the 90s,
History of AI in NASA & DARPA(2000s)
The Present State of AI.
Definition of AI Dictionary Meaning
Introduction: Definition of AI Thinking VS Acting and Humanly VS Rationally
Introduction: Definition of AI Rational Agent View of AI
Introduction: Examples Tasks, Phases of AI & Course Plan

Uniform Search: Notion of a State
Informed Search: Best First Search Local Search: Satisfaction Vs Optimization
AdversarialSearch:Minimax Algorithm for two player games Constraint Satisfaction Problems: Representation of the atomic state
Map coloring and other examples of CSP Backtracking Search
Variable and Value Ordering in Backtracking Search
Inference for detecting failures early Exploiting problem structure
Logic in AI: Different Knowledge Representation systems - 1 Uncertainty in AI: Motivation
Bayesian Networks: Rejection Sampling
Decision Theory: Steps in Decision Theory

Resource Person:-
N. Narendra,
Director, Application domains\Project Management , Vijayawada.

Guidelines:-

No participant fee will be collected. Session time will be from 9:00AM to 5:00PM.

Department of Computer Science and Engineering

PROPOSAL FORM

SUB: 5 Day Certificate program" Artificial Intelligence with Machine learning "-Programme

To the Secretary/Correspondent through Principal for kind approval

1	NAME OF THE INSTITUTION	**Rise Krishna Sai Gandhi Group of Institutions**
2	NAME OF THE DEPARTMENT	Computer Science and Engineering
3	TITLE OF THE PROGRAMME	5 Day Certificate program
4	NAME OF THE PROGRAMME	5 Day Certificate program on" **Artificial Intelligence with Machine learning** "
5	OBJECTIVE OF THE PROGRAMME	To bring the exposure in the recent advancements in the subject.
6	DETAILS OF RESOURCE PERSON(S)& CV ATTACHED.	N. Narendra Director, Application domains\Project Management. Vijayawada.
7	PROPOSED DATE(S)/ACADEMIC YEAR	04-10-2021 TO 08-10-2021
8	DURATION OF THE PROGRAMME	5-Days
9	VENUE	Seminar Hall
10	TARGETS	III CSE students
11	No. OF PARTICIPANTS	109 students
12	REGISTRATION FEE	Nil
13	NAME OF PROGRAMME CO ORDINATOR(S)	Mr.k.NAGA SURESH ,Assoc..professor
14	NAME OF THE STUDENTS COORDINATOR(S)	1. MARAM AKHILA(198B1A0520) 2. PATHI DURGA DEVI(198B1A0525)

PRINCIPAL
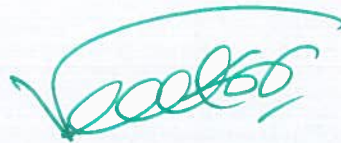RISE KRISHNA SAI GANDHI
GROUP OF INSTITUTIONS
VALLURU:: ONGOLE.

		3. GADDE MANIKANTA(198B1A0590) 4. PASUPULETI KALYAN(198B1A05A0)
5	SOURCE OF FUND IDENTIFIED	Management
16	MANAGEMENT CONTRIBUTION REQUIRED	YES /NO
17	NAME OF BUDGETORY MEMBERS	1.Mr. P. ISSAC PAUL (HOD) 2. Mr.K.NAGA SURESH(CO ORDINATOR)

SUBMITTED BY

HOD
HEAD OF THE DEPARTMENT
Department of CSE
RISE Krishna Sai Gandhi Group of
Institutions,VALLUR,A.P.-523 272

Department of Computer Science and Engineering

Valluru,
Date: 3-10-2021.

CIRCULAR

This is to inform III B.Tech students and faculty that there will be a 5-Day Certificate program on **"Artificial Intelligence with Machine Learning"** from 04-10-2021 to 08-10-2021 by N. Narendra, Dirctor, Application domains/Project Management, Vijayawada.

Professor and HOD
HEAD OF THE DEPARTMENT
Department of CSE
RISE Krishna Sai Gandhi Group of
Institutions, VALLUR, A.P.-523 272

Copy to:

Principal

Staff Circular

Students of CSE III year

CSE Department Notice Boards

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Department of Computer Science & Engineering

Schedule for "ARTIFICIAL INTILLEGENCE USING MACHINE LEARNING"

S.No	Date	Time	Topics Covered
1	04-10-2021	9.00am to 10.00am	Opening ceremony
		10.00am to 12.40pm	1. Introduction: What to Expect from AI 2. Introduction: History of AI from 40s - 90s
		Lunch	
		1.20pm to 5.00pm	3. Introduction: History of AI in the 90s 4. Introduction: History of AI in NASA & DARPA(2000s) 5. Introduction: The Present State of AI
2	05-10-2021	9.00am to 12.40pm	6. Introduction: Definition of AI Dictionary Meaning. 7. Introduction: Definition of AI Thinking VS Acting and Humanly VS Rationally
		1.20pm to 5.00pm	8. Introduction: Definition of AI Rational Agent View of AI 9. Introduction: Examples Tasks, Phases of AI & Course Plan 10. Uniform Search: Notion of a State

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3	06-10-2021	9.00am to 12.40pm	11. Informed Search: Best First Search 12. Local Search: Satisfaction Vs Optimization 13. Techniques in machine learning
		Lunch	
		1.20pm to 5.00pm	14. Adversarial Search: Minimax Algorithm for two player games 15. Constraint Satisfaction Problems: Representation of the atomic state
4	07-10-2021	9.00am to 12.40pm	16. Map coloring and other examples of CSP 17. Backtracking Search
		Lunch	
		1.20pm to 5.00pm	18. Variable and Value Orderingin Backtracking Search 19. Inference for detecting failures early 20 Exploiting problem structure
5	08-10-2021	9.00am to 12.40pm	20. Logic in AI: Different Knowledge Representation systems - 1 21. Uncertainty in AI: Motivation 22. Bayesian Networks: Rejection Sampling
		Lunch	

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		1.20pm to 4.00pm	23 Decision Theory: Steps in Decision Theory 24 Reinforcement Learning: Background 25 Deep Learning: Perceptron's and Activation functions
		4.00pm to 5.00pm	Closing ceremony

K.nooanveth

Coordinator

HOD

HEAD OF THE DEPARTMENT
Department of CSE
RISE Krishna Sai Gandhi Group of
Institutions, VALLUR, A.P.-523 272

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT FEED BACK FORM

NAME OF THE STUDENT : M. Nishit   DATE: 8-10-2021

ROLL NO : 188B1A0599   A.Y: 2021-22

PROGRAMME NAME : AI Using Machine Learning

S.NO	FEED BACK POINTS	1	2	3	4	5
1	Is the Programme useful or not?					✓
2	Is the Programme well planned or not?					✓
3	Programme makes objectives clear?					✓
4	Programme speaker speaks clearly and audibly?					✓
5	Speaker explains with examples clearly?					✓
6	Is your Doubts clarified or not?					✓

5-EXCELLENT   4-GOOD   3-AVERAGE   2-POOR   1-NO COMMENT

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT FEED BACK FORM

NAME OF THE STUDENT : O. Gayathri   DATE: 8-10-2021

ROLL NO :   188B1A0577   A.Y: 2021-22

PROGRAMME NAME : AI using Machine Learning

S.NO	FEED BACK POINTS	1	2	3	4	5
1	Is the Programme useful or not?					✓
2	Is the Programme well planned or not?				✓	
3	Programme makes objectives clear?					✓
4	Programme speaker speaks clearly and audibly?				✓	
5	Speaker explains with examples clearly?					✓
6	Is your Doubts clarified or not?					✓

5-EXCELLENT   4-GOOD   3-AVERAGE   2-POOR   1-NO COMMENT

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT FEED BACK FORM

NAME OF THE STUDENT : T. Geethika   DATE: 8-10-2021

ROLL NO   :   188B1A0537   A.Y: 2021-22

PROGRAMME NAME : AI Using Machine Learning

S.NO	FEED BACK POINTS	1	2	3	4	5
1	Is the Programme useful or not?				✓	
2	Is the Programme well planned or not?				✓	
3	Programme makes objectives clear?					✓
4	Programme speaker speaks clearly and audibly?					✓
5	Speaker explains with examples clearly?					✓
6	Is your Doubts clarified or not?					✓

5-EXCELLENT   4-GOOD   3-AVERAGE   2-POOR   1-NO COMMENT

PRINCIPAL
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT FEED BACK FORM

NAME OF THE STUDENT : B. Renuka

ROLL NO : 188B1A0504

PROGRAMME NAME : AI Using machine Learning

DATE: 8-10-2021

A.Y: 2021-22

S.NO	FEED BACK POINTS	1	2	3	4	5
1	Is the Programme useful or not?				✓	
2	Is the Programme well planned or not?					✓
3	Programme makes objectives clear?				✓	
4	Programme speaker speaks clearly and audibly?				✓	
5	Speaker explains with examples clearly?					✓
6	Is your Doubts clarified or not?					✓

5-EXCELLENT   4-GOOD   3-AVERAGE   2-POOR   1-NO COMMENT

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Department of Computer Science and Engineering

Certificate program Feedback Analysis

Topic : 5 DAY Certification program on

" ARTIFICIAL INTELLIGENCE USING MACHINE LEARNING"

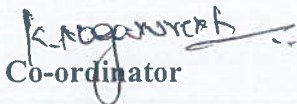Resource Person : N. Narendra, Dirctor, Application domains\Project Management, Vijayawada.
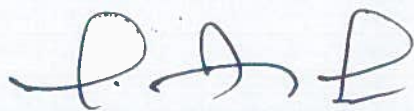
Dates : 04-10-2021 to 8-10-2021

Venue : Seminar Hall

Targeted Students : III Year students

S.No	No. of students Participated	No. of students given feedback	Feedback %
1	106	106	100%

Co-ordinator

Head of the Department

RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS:: ONGOLE
DEPARTMENT OF COMUTER SCIENCE AND ENGINEERING
FEEDBACK ANALYSIS

A.Y: 2021-22 **Year : III B.Tech CSE** Date: 08-10-2021

Certificate Program on "AI USING MACHINE LEARNING"

S.No	Roll Number	Name	1	2	3	4	5	6
1	148B1A0542	TALLURI VYDEHI	4	5	4	4	4	5
2	188B1A0501	ASODI RAMYASREE	5	4	5	5	5	4
3	188B1A0502	ATHMAKURI RAMYA	4	4	5	4	4	5
4	188B1A0503	BEZAWADA JESWITHA	5	5	4	5	5	4
5	188B1A0504	BOMMINENI RENUKA	4	5	4	4	5	5
6	188B1A0505	BYRAPANENI YASHASREE	4	4	4	5	5	5
7	188B1A0506	CHENNUBOINA LAHARI	5	4	5	4	5	4
8	188B1A0507	CHUNDURI JAYA LAKSHMI	5	5	4	5	5	5
9	188B1A0508	GAJJALA MALLESWARI	5	5	4	4	4	4
10	188B1A0510	GUMMADI MADHURI	4	4	4	5	4	5
11	188B1A0511	JUGUNTA KUSUMALATHA	5	4	5	4	5	5
12	188B1A0512	K NAGA VYSHNAVI	5	5	4	5	5	4
13	188B1A0513	KAKUMANI AMRUTHA	5	4	5	5	5	5
14	188B1A0515	KANTU ANJALI	5	5	5	5	5	5
15	188B1A0516	KARETI MOUNIKA	4	5	5	5	5	5
16	188B1A0517	KATTINENI SUSMITHA	4	5	4	4	5	4

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17	188B1A0518	KOKKILAGADDA SIREESHA	4	5	5	4	4	5
18	188B1A0519	KOTAPATI RAJESWARI	4	5	5	5	4	5
19	188B1A0520	KOTIKELAPUDI MOWKTHIKA	5	4	5	4	5	4
20	188B1A0521	KUNAM VIDHYALATHA	4	5	4	4	5	5
21	188B1A0522	MUDDANA LAVANYA	4	5	5	5	5	5
22	188B1A0523	MULAGANI SARANYA REDDY	5	4	4	5	5	5
23	188B1A0524	MUSUNURI DHARANI	4	5	4	4	5	4
24	188B1A0525	NALLAMOTHU JAYASREE	4	5	4	4	5	5
25	188B1A0526	NANNE BOINA SUCHARITHA	5	5	4	5	4	4
26	188B1A0527	NERELLA SATVIKA	4	5	5	5	5	5
27	188B1A0528	PALADUGU DEEPIKA	4	5	5	4	4	4
28	188B1A0529	PAMIDI SRAVANI	4	4	5	5	4	5
29	188B1A0530	PANDI DEEPTHI RAYALU	4	5	5	4	4	5
30	188B1A0531	PUTTAMRAJU SRAVYA	5	5	4	4	4	4
31	188B1A0532	SAMANTHAPUDI KEERTHANA	5	4	4	4	5	5
32	188B1A0533	SUDANAGUNTA BHAVANA PRIYA	4	4	5	5	5	5
33	188B1A0534	SURABHI SRAVANI	4	5	5	5	5	5
34	188B1A0535	SURAM SRIVIDHYA	5	4	4	5	5	4
35	188B1A0536	SYED RUHI FARDIBHA	4	4	5	4	4	5
36	188B1A0537	THANGELLA GEETHIKA	4	4	5	5	5	5

37	188B1A0538	THATHA SAI HARI PRIYA	5	5	5	4	4	5
38	188B1A0539	THOTTEMPUDI NAVYA	4	5	5	5	5	4
39	188B1A0540	THOTTEMPUDI VENKATA NANDHINI	4	4	4	4	4	5
40	188B1A0541	VALETI PRASANNA	4	5	4	5	5	5
41	188B1A0542	VARADA SWETHA	5	5	4	4	5	4
42	188B1A0543	YANAMALA SIRISHA	4	4	5	5	5	5
43	188B1A0544	YARRAMOTHU KANAKA DURGA	5	5	5	4	4	5
44	188B1A0545	ANIL BABU SAKINENI	4	5	5	5	4	5
45	188B1A0546	BIJJAM HARSHA REDDY	5	5	4	4	5	4
46	188B1A0547	DEVIREDDY JESHWANTH REDDY	4	5	4	5	4	5
47	188B1A0548	GONUGUNTA VENKATA SURYA SAI HARSHA	5	4	4	4	5	5
48	188B1A0549	KOMMALAPATI AKHIL CHOWDARY	4	5	5	4	5	5
49	188B1A0550	KYPU RAVINDRA REDDY	5	5	4	5	5	5
50	188B1A0551	MALISETTY DINESH	4	4	5	4	4	5
51	188B1A0552	NANDURI RAVINDRA	5	5	5	4	5	4
52	188B1A0553	PADARTHI AVINASH	5	4	5	5	4	5
53	188B1A0554	PODDUTURI GREESHMANTH	5	5	5	4	5	5
54	188B1A0555	POTTURI SARATH KUMAR	4	4	5	5	4	5
55	188B1A0556	RACHANENI SOWMITH NAIDU	5	5	5	5	5	5
56	188B1A0557	SEELAM MULINTI GURIVI REDDY	4	4	5	4	5	4

57	188B1A0558	SUDANAGUNTA VENKATA REVANTH	4	4	4	5	5	4
58	188B1A0559	THAMALAPAKULA VAMSI BABU	4	4	5	4	5	5
59	188B1A0560	VASANTHA VIJAY BHARGAV	4	4	5	5	5	5
60	188B1A0561	AKKALA BHAVYA BHARATHI	5	4	5	5	5	5
61	188B1A0562	BHAVANASI HARITHA	4	4	5	5	4	4
62	188B1A0563	CHALLA VINEETHA	4	4	4	4	5	5
63	188B1A0564	CHELLI PRAVALIKA	5	4	4	4	5	5
64	188B1A0565	GATTUPALLI JHANSI LAKSHMI	5	4	4	5	5	5
65	188B1A0566	GURRAM KRISHNA DEEPIKA	5	4	4	4	5	5
66	188B1A0567	ILINDRA KRISHNA VARSHINI	5	5	5	4	4	5
67	188B1A0568	JAJJARA SOWKHYA	5	5	4	4	5	5
68	188B1A0569	JALAKAM USHA RANI	4	5	4	4	5	5
69	188B1A0570	KANNEBOINA GAYATHRI	4	5	4	4	5	5
70	188B1A0571	KODURI SRI SAI ALEKHYA	4	4	5	5	5	5
71	188B1A0572	KORUMALLI AHALYA	5	5	4	4	5	5
72	188B1A0573	MADISETTY BHANU KEERTHANA	5	5	5	4	5	5
73	188B1A0574	MALLAVARAPU PRUDHVI	5	5	4	4	5	5
74	188B1A0575	MIRIYALA SUMA PRIYA	4	4	4	5	5	5
75	188B1A0576	NERELLA VENKATA VASAVI	5	5	4	4	5	5
76	188B1A0577	OLLA GAYATHRI	5	4	5	4	5	5

77	188B1A0578	PAKALA BALA CHANDANA	4	5	5	5	5	5
78	188B1A0579	PATAN ANJU	5	4	5	4	5	5
79	188B1A0580	PONNURU CHERISHMA LAKSHMI DURGA	5	4	5	5	5	5
80	188B1A0581	POTHURU VENKATA SAI AMRUTHA	5	5	4	4	5	5
81	188B1A0582	SAIBA VENKATA SARANYA	5	4	5	5	5	4
82	188B1A0583	SEELAM BORANNAGARI GURU SIVANI	4	5	5	4	4	5
83	188B1A0584	SOMISETTY VIDYA	5	4	4	5	5	5
84	188B1A0585	SWARNA BHARGAVI	4	4	5	5	4	5
85	188B1A0586	UNNAM PRAVALLIKA	4	5	4	4	5	4
86	188B1A0587	VELAMPALLI LAKSHMI VENKATA SAROJA	4	5	4	5	5	5
87	188B1A0588	VELAMPALLI PAVITHRA	5	5	4	4	5	5
88	188B1A0589	YARRA GEETHA	5	5	4	5	5	5
89	188B1A0590	YENDLURI HARI PRIYA	5	5	4	5	5	5
90	188B1A0592	BANDARU HEMANTH KUMAR	4	4	4	5	4	4
91	188B1A0593	BEEMANADHAM MADANMOHAN REDDY	4	4	5	4	4	5
92	188B1A0594	BODAPATI SARATH CHANDRA	5	4	4	5	5	5
93	188B1A0595	CHERUVU RAVITEJA	4	5	4	4	4	4
94	188B1A0596	DAMA BOSE THIRUPATA ROY CHOWDARY	4	4	5	5	5	4
95	188B1A0597	GRANDI KIRAN KUMAR	5	5	4	4	4	5

96	188B1A0599	MADALA NISHIT	5	5	5	5	5	5
97	188B1A05A0	MURARISETTY VENKATA RAKESH	5	5	4	5	4	5
98	188B1A05A1	NELLURI VENKATA THARUN KUMAR	4	5	5	4	5	4
99	188B1A05A2	PULICHARLA HEMANTH KUMAR REDDY	4	5	4	5	5	5
100	188B1A05A3	R VENKATA AJAY KUMAR	4	4	4	4	5	5
101	188B1A05A4	RACHAPUDI JAGADEESH	4	4	5	5	5	5
102	188B1A05A6	SANKA PAVAN KALYAN	4	5	5	5	5	5
103	188B1A05A7	URIBINDI RAVI TEJA	5	4	5	5	4	4
104	188B1A05A8	VADICHERLA PRASANTH	5	4	5	4	4	5
105	188B1A05B0	VENKATA JASWANTH GONUGUNTA	4	5	4	5	5	5
106	188B1A05B1	MARAKA MOUNIKA	4	4	5	4	4	4
			4.49	4.52	4.51	4.50	4.70	4.75
			89.78	90.41	90.29	90.00	93.96	94.91
			91.56					

K. Nagamurah

COORDINATOR

HOD

HEAD OF THE DEPARTMENT
Department of CSE
RISE Krishna Sai Gandhi Group of
Institutions, VALLUR, A.P.-523 272

Department of Computer Science and Engineering
Certificate Program on Artificial Intelligence Question Paper

----

Student name :   Reg.No:

Branch : III CSE   AY:2021-22

An Introduction to Artificial Intelligence Bits

1) Artificial Intelligence is about_____. [   ]
   a. Playing a game on Computer
   b. Making a machine Intelligent
   c. Programming on Machine with your Own Intelligence
   d. Putting your intelligence in Machine

2) Who is known as the -Father of AI"? [   ]

   a. Fisher Ada
   b. Alan Turing
   c. John McCarthy
   d. Allen Newell

3) Select the most appropriate situation for that a blind search can be used. [   ]

   a. Real-life situation
   b. Small Search Space
   c. Complex game
   d. All of the above

4) The application/applications of Artificial Intelligence is/are   [   ]

   a. Expert Systems
   b. Gaming
   c. Vision Systems
   d. All of the above

5) Among the given options, which search algorithm requires less memory? [   ]
   a. Optimal Search
   b. Depth First Search
   c. Breadth-First Search

d. Linear Search

6) If a robot is able to change its own trajectory as per the external conditions, then the robot is considered as the__[   ]

    a. Mobile
    b. Non-Servo
    c. Open Loop
    d. Intelligent

7) Which of the given language is not commonly used for AI? [   ]

    a. LISP
    b. PROLOG
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    a. Knowledge Base
    b. Inference Engine
    c. User Interface
    d. All of the above

10) The available ways to solve a problem of state-space-search. [   ]

    a. 1
    b. 2
    c. 3
    d. 4

11) An AI agent perceives and acts upon the environment using____.[   ]

    a. Sensors
    b. Perceiver
    c. Actuators
    d. Both a and c

12) Which rule is applied for the Simple reflex agent? [   ]

    a. Simple-action rule
    b. Simple &Condition-action rule
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    d. None of the above

13) Which agent deals with the happy and unhappy state? [   ]

    a. Utility-based agent
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14) Which AI technique enables the computers to understand the associations and relationships between objects and events? [   ]

    a. Heuristic Processing
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    c. Relative Symbolism
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15) The exploration problem is where_____.[   ]

    a. Agent contains the knowledge of State and actions.
    b. Agent does not contain the knowledge of State and actions.
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RISE KRISHNA SAI GANDHI
GROUP OF INSTITUTIONS
VALLURU:: ONGOLE.

16) The search algorithm which is similar to the minimax search, but removes the branches that don't affect the final output is known as__.[   ]

    a. Depth-first search
    b. Breadth-first search
    c. Alpha-beta pruning
    d. None of the above

17) Among the given options, which is also known as inference rule? [   ]

    a. Reference
    b. Reform
    c. Resolution
    d. None of the above

18) Which of the following option is used to build complex sentences in knowledge representation? [   ]

    a. Symbols
    b. Connectives
    c. Quantifier
    d. None of the above

19) Automatic Reasoning tool is used in_____.[   ]

    a. Personal Computers
    b. Microcomputers
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20) If according to the hypothesis, the result should be positive, but in fact it is negative, then it is known as_____.[   ]

    a. False Negative Hypothesis
    b. False Positive Hypothesis
    c. Specialized Hypothesis
    d. Consistent Hypothesis

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VALLURU:: ONGOLE.

Department of Computer Science and Engineering

Keys:

1. Making a machine Intelligent
2. John McCarthy
3. Small Search Space
4. All of the above
5. Depth First Search
6. Intelligent
7. Perl
8. Turing Test
9. All of the above
10. 2
11. Both a and c
12. Condition-action rule
13. Utility-based agent
14. Pattern Matching
15. Agent does not contain the knowledge of State and actions.
16. Alpha-beta pruning
17. Resolution
18. Connectives
19. LISP Machines
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Department of Computer Science and Engineering
Certificate Program on Artificial Intelligence Question Paper
----

Student name : K. Haseena   Reg.No: 198B1A0516

Branch : III CSE   AY:2021-22   20/20

An Introduction to Artificial Intelligence Bits

1) Artificial Intelligence is about_____. [b]
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PRINCIPAL
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GROUP OF INSTITUTIONS
VALLURU:: ONGOLE.

16) The search algorithm which is similar to the minimax search, but removes the branches that don't affect the final output is known as___.[C]

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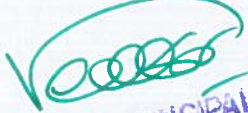18) Which of the following option is used to build complex sentences in knowledge representation? [b]

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$\frac{20}{20}$

Department of Computer Science and Engineering
Certificate Program on Artificial Intelligence Question Paper

----

Student name : D. Harsha Vardhan   Reg.No: 198B1A0587

Branch : III CSE   AY:2021-22

An Introduction to Artificial Intelligence Bits

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PRINCIPAL
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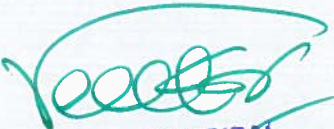18) Which of the following option is used to build complex sentences in knowledge representation? [b]

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GROUP OF INSTITUTIONS
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RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS
(Approved by AICTE-NEW DELHI, Affiliated to JNTUK KAKINADA)
NH-16, Valluru -523272, Ongole, Prakasam District, A.P, India

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

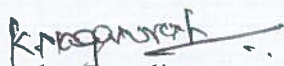| BRANCH:CSE-I YEAR : III-I	Academic year:2021-2022	CERTIFICATE PROGRAM ON "ARTIFICIAL INTELLIGENCE USING MACHINE LEARNING "

STUDENT ASSESSMENT SHEET

S.NO	ROLL NUMBERS	NAME OF THE STUDENT	MARKS
1	198B1A0501	AKKALA PAVANI REDDY	19
2	198B1A0502	ANALA JAYA SRENIKA	18
3	198B1A0503	ANUMULA ANJALI	17
4	198B1A0505	BUDDULA KELITA JOVEL	18
5	198B1A0506	CHANDRAGIRI SIVANI	18
6	198B1A0507	CHAVA LAKSHMI SIVANI	18
7	198B1A0508	CHENNAMSETTY VENKATA LAKSHMI	20
8	198B1A0509	CHEVUTURI VISHNAVI	19
9	198B1A0510	DONTHIREDDY SNEHA LATHA REDDY	20
10	198B1A0511	GHORAKAVI VENKATA LAKSHMI SRAVANTHI	19
11	198B1A0512	GOPIREDDY VARSHITHA SAI	17
12	198B1A0513	GUDISA MOUNIKA	18
13	198B1A0514	IRAGALA NANDINI	18
14	198B1A0515	JASTI ANJALI DEVI	18
15	198B1A0516	KAKARLA HASEENA	18
16	198B1A0517	KAMUJULA LAKSHMI PRIYANKA	17
17	198B1A0518	KODURI BINDU	20
18	198B1A0519	KOTA VENKATA SATYA AHALYA	17
19	198B1A0520	MARAM AKHILA	18
20	198B1A0521	MEDAGAM ABHINAYA	20
21	198B1A0522	MYLAVARAPU VINITHA	18
22	198B1A0523	NADENDLA SAI PUJITHA	19
23	198B1A0524	PACHIPULUSU VASANTHI	17
24	198B1A0525	PATHI DURGA DEVI	19
25	198B1A0526	RAYAPATI POOJITHA	20
26	198B1A0527	SHAIK HEENA THAKDEES	20

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RISE KRISHNA SAI GANDHI
GROUP OF INSTITUTIONS
VALLURU:: ONGOLE.

S.NO	ROLL NUMBERS	NAME OF THE STUDENT	MARKS
28	198B1A0529	SOMARAJUPALLI NAGA SRAVANI	19
29	198B1A0530	TALLAPANENI SNEHA LATHA	19
30	198B1A0531	VAYIGANDLA PADMA SAI	17
31	198B1A0532	YEKAMBARAM SREELEKHA	18
32	198B1A0533	BATHULA PAVAN KALYAN	17
33	198B1A0534	BATTU SISINDRI	18
34	198B1A0535	BATTULA PRAVEEN KUMAR	19
35	198B1A0536	BODAPATI VINOD	19
36	198B1A0537	CHALLA AJAY VARMA	18
37	198B1A0538	CHENNAMSETTY NARESH	18
38	198B1A0539	GANGADI DEEPAK	19
39	198B1A0540	INDRA LINGESWARA REDDY JETTY	18
40	198B1A0541	KOVURI RAJESH	19
41	198B1A0542	MARAM BHARGAVA REDDY	20
42	198B1A0543	NUNE HAREESWARA ASWINI KUMAR	18
43	198B1A0544	PALADUGU VENKATA SIVA SAI RAM	19
44	198B1A0545	PEDDINENI SAI MANOJ	19
45	198B1A0546	PINNAKA BALA VENKATA KISHORE CHOWDARY	20
46	198B1A0547	RAVINUTHALA SUMANTH	19
47	198B1A0548	SAGA RAVIKUMAR	18
48	198B1A0549	SHAIK SHABBIR	20
49	198B1A0550	SRI CHAKRAVARTI NALLURI	17
50	198B1A0551	TULABANDULA PRAVEEN	19
51	198B1A0552	VEMIREDDY RAMESH REDDY	18
52	198B1A0553	VENNA SIVANJI REDDY	18
53	198B1A0554	VISHNUVARDAN REDDY BADDELA	18

Faculty Coordinator

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RISE KRISHNA SAI GANDHI
GROUP OF INSTITUTIONS
VALLURU:: ONGOLE

HEAD OF THE DEPARTMENT
HOD
Department of CSE
RISE Krishna Sai Gandhi Group of
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RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS

(Approved by AICTE-NEW DELHI, Affiliated to JNTUK KAKINADA)

NH-16, Valluru -523272, Ongole, Prakasam District, A.P, India

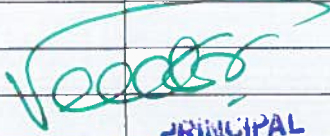## DEPARTMENT OF COMPUTER SCIENCE ENGINEERING
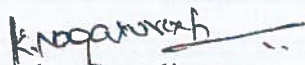
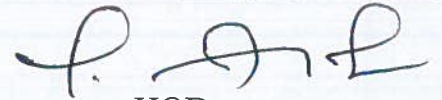| BRANCH:CSE-II YEAR : III-I	Academic year:2021-22	Certificate program on "ARTIFICIAL INTELLIGENCE USING MACHINE LEARNING"

STUDENT ASSESSMENT SHEET

S.NO	ROLL NUMBERS	NAME OF THE STUDENT	MARKS
1	198B1A0555	AMARA KAVYA SREE	18
2	198B1A0556	AMARA SATYA LAKSHMI MANI ANASUYA	17
3	198B1A0557	BANDARU SIRISHA	20
4	198B1A0558	BANDI HARITHA	20
5	198B1A0559	BEERALA VENKATA ANJANI	20
6	198B1A0560	CHINTHAPALLI SAI RAJASWINI	19
7	198B1A0561	CHITTA DURGA BHAVANI	19
8	198B1A0562	CHITTA SUPRIYA	20
9	198B1A0563	GUDURI RUCHITHA	17
10	198B1A0564	GUNAPANENI MADHURI	18
11	198B1A0565	KAKARLA VANAJA	19
12	198B1A0566	KHAREEDU SAILAJA	19
13	198B1A0567	KOTA LAKSHMI SUPRAJA	18
14	198B1A0568	MADDA PRAGATHI	18
15	198B1A0569	MIDASALA SRUTHI	19
16	198B1A0570	MOTAPOTULA NAGA POOJITHA	20
17	198B1A0571	MULAGANI LAKSHMICHARANYA	19
18	198B1A0572	MUVVALA VENKATA SAI SREEYA	20
19	198B1A0573	NAGASURI LAKSHMI DEEPIKA	19
20	198B1A0574	NAVULURI KEERTHANA	18
21	198B1A0575	PADARTHI GOWRI LAKSHMI	19
22	198B1A0576	PALURI HEMANJALI	17
23	198B1A0577	PEDANABOINA NANDINI	20
24	198B1A0578	POKURI N V L GODHA SRAVANI	20
25	198B1A0579	POKURI SREEVALLI	20
26	198B1A0580	RANGU GOWRI BHARGAVI	20
27	198B1A0581	SEELAM SAI PRAVALLIKA	17
28	198B1A0582	SHAIK JABINA	17
29	198B1A0583	VENNAPUSA THRIVENI	18
30	198B1A0584	VIKRAM MOUNIKA	20
31	198B1A0585	YALLAVULA MADHURI	18
32	198B1A0586	ALAPATI SAI BHARGAV	18
33	198B1A0587	DASARI HARSHAVARDHAN	19
34	198B1A0588	DEVULAPALLI NRUSHIMHA	18
35	198B1A0589	DHULIPALLA DANA RAO	20
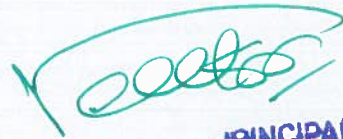
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RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS VALLURU:: ONGOLE.

S.NO	ROLL NUMBERS	NAME OF THE STUDENT	MARKS
37	198B1A0591	IDAVALAPATI BHARGAV RAM	18
38	198B1A0592	INDRAGANTI MANIDEEPAK	17
39	198B1A0593	KANDUKURI SURENDRA	18
40	198B1A0594	MARELLA SRINIVASA RAO	18
41	198B1A0595	MEDIKONDA VENKATA SIVA RAMAKRISHNA	18
42	198B1A0596	MOHAMMED YOUNUS AHAMED	18
43	198B1A0597	NALLURI ANIL KUMAR	18
44	198B1A0598	NANABALA RANGANADH	18
45	198B1A0599	NEKKANTI VENKATA SAIKUMAR	19
46	198B1A05A0	PASUPULETI KALYAN	18
47	198B1A05A1	REGULA NARENDRA BABU	18
48	198B1A05A2	RACHAPUDI AKHIL AKASH MANI KANTA	17
49	198B1A05A3	RAJARAPU VENKATA GURUMURTHY	17
50	198B1A05A4	SRUNGARAPU SAI AVINASH NAIDU	19
51	198B1A05A5	SUNNAM SAI VARUN KUMAR	19
52	198B1A05A6	THOTAPALLI PURNA SATYA KARTHEEK	18
53	198B1A05A7	THUMATI VENKATA GOPI	19
54	198B1A05A8	VAKA ROHITH	18
55	198B1A05A9	YAGANTI PAVAN KUMAR	18
56	208B5A0501	PAPANABOINA RADHA	18

Faculty Coordinator

HOD

HEAD OF THE DEPARTMENT
Department of CSE
RISE Krishna Sai Gandhi Group of
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RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS: ONGOLE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

[Certificate program on Artificial Intelligence

using Machine Learning]

The Certificate Program conducted by CSE department on 04th – 08th November 2021 in
RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS

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VALLURU:: ONGOLE.

Objectives of conducting Certificate program

Objectives:

The goals of artificial intelligence include computer-enhanced learning, reasoning, and perception.

AI is being used today across different industries from finance to healthcare. Weak AI tends to be simple and single-task oriented, while strong AI carries on tasks that are more complex and human

Outcomes:

The main learning objectives of the course are to: Identify problems where artificial intelligence techniques are applicable.

Apply selected basic AI techniques; judge applicability of more advanced techniques.

Basic Concepts in Machine Learning

What is Machine Learning?

Machine Learning is defined as a technology that is used to train machines to perform various actions such as predictions, recommendations, estimations, etc., based on historical data or past experience.

Machine Learning enables computers to behave like human beings by training them with the help of past experience and predicted data.

Techniques in Machine Learning

1. Supervised Learning

2. Unsupervised Learning

3. Reinforcement Learning

4. Semi-supervised Learning

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Applications of Machine Learning

- Automatic Language Translation
- Medical Diagnosis
- Stock Merket Trading
- Online Fraud Detection
- Virtual Personal Assistant
- Email Spam and Malware Filtering
- Self driving cars
- Product recommendation
- Traffic Prediction
- Speech Recognition
- Image Recognition

1. Healthcare and Medical Diagnosis

2. Marketing:

3. Self-driving cars:

4. Speech Recognition:

5. Traffic Prediction

6. Product Recommendations:

Commonly used Machine Learning Algorithms

Linear Regression

Linear Regression is one of the simplest and popular machine learning algorithms recommended by a data scientist. It is used for predictive analysis by making predictions for real variables such as experience, salary, cost, etc.

Linear Regression can be expressed mathematically as follows:

$y = a_0 + a_1 x + \varepsilon$

Y = Dependent Variable

X = Independent Variable

a0= intercept of the line (Gives an additional degree of freedom)

a1 = Linear regression coefficient (scale factor to each input value).

ε = random error

Logistic Regression
Logistic Regression is a subset of the Supervised learning technique. It helps us to predict the output of categorical dependent variables using a given set of independent variables.
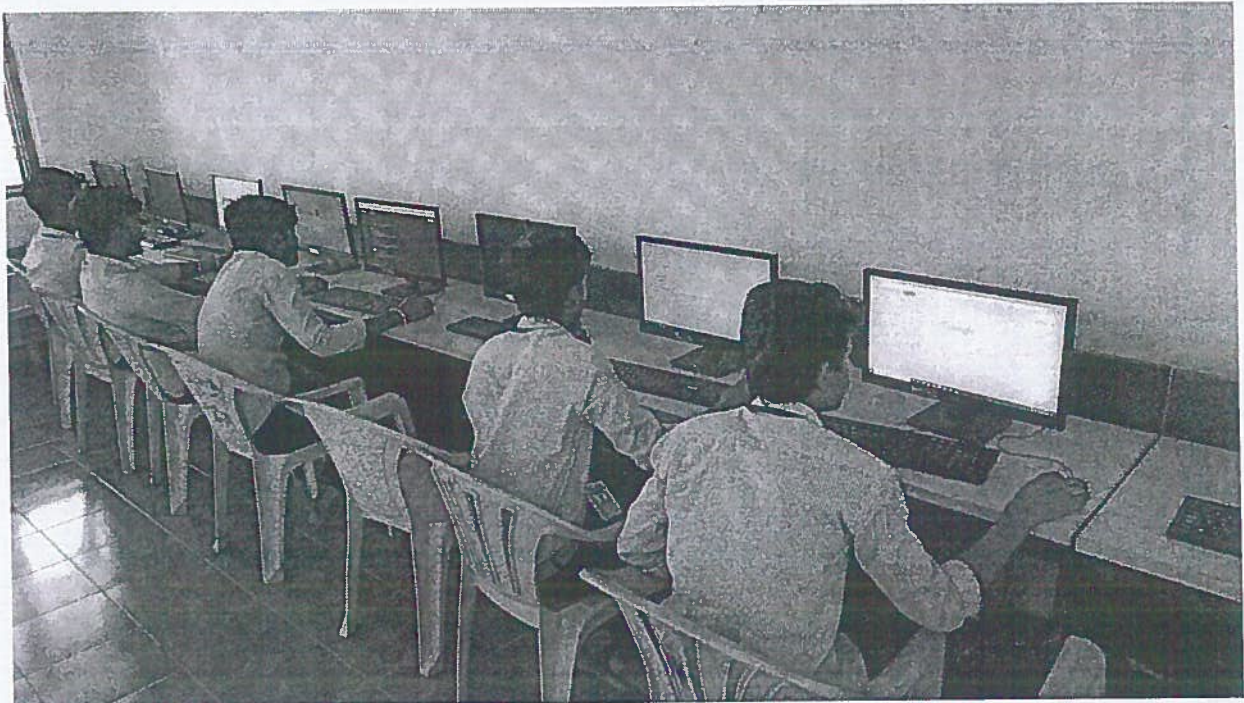
Mathematically, we can express Logistic regression as follows:

Types of Logistic Regression:

- o   Binomial
- o   Multinomial
- o   Ordinal

K Nearest Neighbour (KNN)

It is also one of the simplest machine learning algorithms that come under supervised learning techniques. It is helpful for solving regression as well as classification problems.

Applications of KNN algorithm in Machine Learning

Including Machine Learning, KNN algorithms are used in so many fields as follows:

- o Healthcare and Medical diagnosis
- o Credit score checking
- o Text Editing
- o Hotel Booking
- o Gaming
- o Natural Language Processing, etc.

Decision Tree

Decision Tree is also another type of Machine Learning technique that comes under Supervised Learning. Similar to KNN, the decision tree also helps us to solve classification as well as regression problems, but it is mostly preferred to solve classification problems.

Random Forest

Random Forest is also one of the most preferred machine learning algorithms that come under the Supervised Learning technique. Similar to KNN and Decision Tree, It also allows us to solve classification as well as regression problems, but it is preferred whenever we have a requirement to solve a complex problem and to improve the performance of the model.

Support Vector Machines (SVM)

It is also one of the most popular machine learning algorithms that come as a subset of the Supervised Learning technique in machine learning.

Naïve Bayes

The naïve Bayes algorithm is one of the simplest and most effective machine learning algorithms that come under the supervised learning technique.

Difference between machine learning and Artificial Intelligence

o   Artificial intelligence is a technology using which we can create intelligent systems that can simulate human intelligence, whereas Machine learning is a subfield of artificial intelligence, which enables machines to learn from past data or experiences.

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Department of Computer Science and Engineering

Date: 08-10-2021.

CLOSING REPORT

To

The Principal

Rise Krishna Sai Gandhi Group of instutions

valluru

As per the approved schedule Rise Krishna Sai Gandhi group of Institutions conducted a Certificate Program on "ARTIFICIAL INTILLEGENCE USING MACHINE LEARNING" at CSE Seminar Hall From 04-10-2021 to 08-10-2021 from 09.00 am to 5.00 pm per day. The students of III CSE total 109 are participated in this programme. This Certificate Program head attended N. Narendra, Dirctor, Application domains\Project Management, Vijayawada.
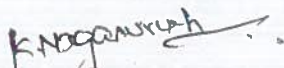
Main issues addressed:

1. Introduction: What to Expect from AI
2. Introduction: History of AI from 40s - 90s
3. Introduction: History of AI in the 90s
4. Introduction: History of AI in NASA & DARPA(2000s)
5. Introduction: The Present State of AI
6. Introduction: Definition of AI Dictionary Meaning
7. Introduction: Definition of AI Thinking VS Acting and Humanly VS   Rationally
8. Introduction: Definition of AI Rational Agent View of AI
9. Introduction: Examples Tasks, Phases of AI & Course Plan
10. Uniform Search: Notion of a State
11. Informed Search: Best First Search
12. Local Search: Satisfaction Vs Optimization
13. Adversarial Search: Minimax Algorithm for two player games
14. Constraint Satisfaction Problems: Representation of the atomic state
15. Map coloring and other examples of CSP
16. Backtracking Search
17. Variable and Value Ordering in Backtracking Search
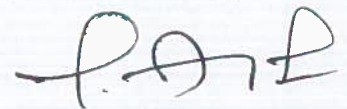18. Inference for detecting failures early

19. Exploiting problem structure
20. Logic in AI: Different Knowledge Representation systems - 1
21. Uncertainty in AI: Motivation
22. Bayesian Networks: Rejection Sampling
23. Decision Theory: Steps in Decision Theory
24. Reinforcement Learning: Background
25. Deep Learning: Perceptron's and Activation functions

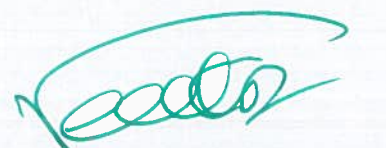We are expecting your support in future also, for that we will be thankful to you.

Thanking you sir,

Yours faithfully,

Faculty Coordniator

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