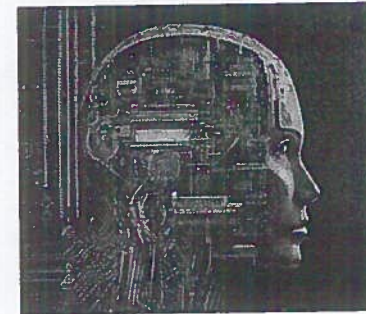


RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS: ONGOLE



Certificate program
on
“Artificial Intelligence
using
Machine learning”



21th November 2022 TO 25th November 2022

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

ORGANIZED BY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING


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



RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS:: ONGOLE

(APPROVED BY AICTE-NEW DELHI, AFFILIATED TO JNTUK KAKINADA)
NH-16, Valluru-523272, Ongole, Prakasam (Dist), AndhraPradesh, India

Department of Computer Science and Engineering

Valluru,

Date:18-11--2022.

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 21-11-2022 to 25-11-2022.

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.


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

Yours sincerely,


Principal

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 INTELLIGENCE.



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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
MALLURU:: ONGOLE**

**A FIVE DAY CERTIFICATE
PROGRAMME ON
“Artificial Intelligence with
Machine Learning “
21th – 25th Nov- 2022.**



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

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RISE KRISHNA SAI GANDHI
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

Adversarial Search: 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,

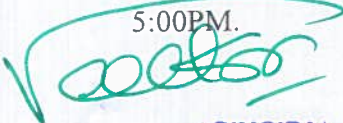
Director, Application domains\Project
Management , Vijayawada.

Guidelines:-

No participant fee will be collected.

Session time will be from 9:00AM to

5:00PM.


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(APPROVED BY AICTE-NEW DELHI, AFFILIATED TO JNTUK KAKINADA)
NH-16, Valluru-523272, Ongole, Prakasam (Dist), AndhraPradesh, India

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	21-11-2022 TO 25-11-2022
8	DURATION OF THE PROGRAMME	5-Days
9	VENUE	Seminar Hall
10	TARGETS	III CSE-DS students
11	No. OF PARTICIPANTS	47 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. BONTHA PAVAN KALYAN(208B1A4432)

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		2. SHAIK SUMEENA(208B1A4427)
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 (DS)
RISE Krishna Sai Gandhi Group of
Institutions, VALLUR, A.P.-523 272



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RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS

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

Department of Computer Science and Engineering

Valluru,
Date: 19-11-2022.

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 21-11-2022 to 25-11-2022 by N. Narendra, Director, Application domains/Project Management, Vijayawada.

Copy to:

Principal

Staff Circular

Students of CSE III year

CSE Department Notice Boards

Professor and HOD

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

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(Approved by AICTE-NEW DELHI, Affiliated to JNTUK KAKINADA)
NH-16, Valluru -523272, Ongole, Prakasam District, A.P, India.

Department of Computer Science & Engineering

Schedule for “ARTIFICIAL INTILLEGENCE USING MACHINE LEARNING”

S.No	Date	Time	Topics Covered
1	21-11-2022	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	22-11-2022	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	23-11-2023	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	24-11-2022	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 Ordering in Backtracking Search 19. Inference for detecting failures early 20. Exploiting problem structure
5	25-11-2022	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. Nagaraj
Coordinator

HOD

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

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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT FEED BACK FORM

NAME OF THE STUDENT : *K. Srihari*

DATE: *25-11-22*

ROLL NO : *208B1A4437*

A.Y: *2022-2023*

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 : D. mamatha

DATE: 25-11-2022

ROLL NO : 208BIA4405

A.Y: 2022-2023

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

Veeru

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT FEED BACK FORM

NAME OF THE STUDENT : P. Poojitha

DATE: 25-11-22

ROLL NO : 208B1A4418

A.Y: 2022-2023

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 : *M. Anusha*

DATE: *25-11-22*

ROLL NO : *208BIA4416*

A.Y: *2022-23*

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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NH-16, Valluru-523272, Ongole, Prakasam (Dist), Andhra Pradesh, India

Department of Computer Science and Engineering

Certificate program Feedback Analysis

Topic : 5 DAY Certification program on
"ARTIFICIAL INTELLIGENCE USING MACHINE LEARNING"

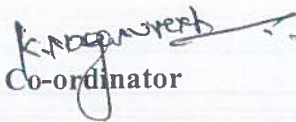
Resource Person : N. Narendra, Director, Application domains\Project Management,
Vijayawada.

Dates : 21-11-2022 TO 25-11-2022

Venue : Seminar Hall

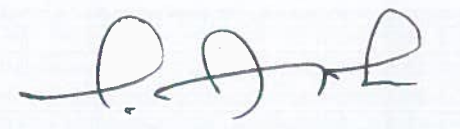
Targeted Students : III Year students

S.No	No. of students Participated	No. of students given feedback	Feedback %
1	47	47	100%


Co-ordinator



PRINCIPAL
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GROUP OF INSTITUTIONS
VALLURU:: ONGOLE.


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



RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS:: ONGOLE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FEEDBACK ANALYSIS

A.Y: 2022-23

Year : III B.Tech CSE-DS

Date: 25-11-22

Certificate Program on "AI USING MACHINE LEARNING"

S.No	Roll Number	Name	1	2	3	4	5	6
1	208B1A4401	ADUGULA VYSHNAVI	5	4	4	4	4	5
2	208B1A4402	BOGOLU SUNITHA RANI	4	5	4	5	5	4
3	208B1A4403	BOLLINENI DURGA PRIYA	5	5	4	4	4	5
4	208B1A4404	DADI SRILIKHIE	5	4	4	5	5	4
5	208B1A4405	DIVI MAMATHA	4	4	5	4	5	5
6	208B1A4406	EKAMBARAM ANUSHA	5	4	5	5	5	5
7	208B1A4407	GANDI SRAVANI	5	4	5	4	5	4
8	208B1A4408	GUDA KARUNASRI NIKHITHA	4	5	4	5	5	5
9	208B1A4409	KAMSANI LAVANYA	4	5	4	4	4	4
10	208B1A4410	KANCHARLA GAYATHRI	4	4	5	5	4	5
11	208B1A4411	KANCHARLA POOJA	4	5	4	4	5	5
12	208B1A4412	KODAVANDLA PUJITHA	4	5	5	5	5	4
13	208B1A4413	KOLLURI CHANDRIKA	5	4	5	5	5	5
14	208B1A4414	KOYI SHALINI	5	4	4	5	5	5
15	208B1A4415	MALLISETTY SRAVYA	5	4	4	5	5	5
16	208B1A4416	MUTCHU ANUSHA	5	4	5	4	5	4


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VALLURU:: ONGOLE.

17	208B1A4417	NAGIREDDY SAI BHAVANA REDDY	4	4	4	4	4	5
18	208B1A4418	PALAKONDU POOJITHA	4	5	5	5	4	5
19	208B1A4419	POLURI SRAVYA	5	4	5	4	5	4
20	208B1A4420	PULI SUKANYA	4	4	5	4	5	5
21	208B1A4421	RAGHAVA VYSHNAVI	5	5	5	5	5	5
22	208B1A4422	RAMALA MOUNIKA	5	5	5	5	5	5
23	208B1A4423	SAIMPU PRASANNA	5	4	5	4	5	4
24	208B1A4424	SAKHAMURI PUSHPAVALLI	5	4	5	4	5	5
25	208B1A4426	SHAIK MOBINA BI	5	4	5	5	4	4
26	208B1A4427	SHAIK SUMEENA	4	4	5	5	5	5
27	208B1A4428	VELIDI AKANKSHA	5	5	5	4	4	4
28	208B1A4429	VENNAPUSA SUSHMA	4	4	4	5	4	5
29	208B1A4430	ALLAM VENKATA SAI TEJA	5	5	5	4	4	5
30	208B1A4431	BATHULA SRIKANTH	5	5	5	4	4	4
31	208B1A4432	BONTHA PAVAN KALYAN	5	4	4	4	5	5
32	208B1A4433	CHALLA RAVINDRA	5	4	4	5	5	5
33	208B1A4434	GONGALA REDDY VENKATA PAVAN KUMAR REDDY	5	4	4	5	5	5
34	208B1A4435	GOPANABOYINA DAIVA PRASAD	5	5	4	5	5	4
35	208B1A4437	KODURI SRIHARI	4	5	4	4	4	5
36	208B1A4438	KOPPOLU VENKATA DINESH KUMAR	5	4	5	5	5	5

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GROUP OF INSTITUTIONS
VALLURU:: ONGOLE.

37	208B1A4440	MANJULA MAHESH	4	5	4	4	4	5
38	208B1A4441	MIDUTURU ADIKESHAVA REDDY	5	5	5	5	5	4
39	208B1A4442	MORA SIVA NARAYANA REDDY	4	4	5	4	4	5
40	208B1A4443	NELATURI SAI KUMAR	5	5	4	5	5	5
41	208B1A4444	NUTHALAPATI VENKATA SUHAS KUMAR	5	5	4	4	5	4
42	208B1A4445	PIDIKITI VAMSI KRISHNA	5	5	5	5	5	5
43	208B1A4446	RAJAPUTRA SAILOKESH SINGH	4	4	4	4	4	5
44	208B1A4447	RAMALA VINAY KUMAR REDDY	5	4	5	5	4	5
45	208B1A4448	TANAM SIVA KOTESWARA RAO	5	4	5	4	5	4
46	208B1A4449	VATSAVAI ASHOK VARMA	5	5	5	5	4	5
47	208B1A4450	YERUVA DEVENDRA REDDY	4	4	4	4	5	5
			4.56	4.54	4.51	4.51	4.64	4.68
			91.19	90.78	90.29	90.21	92.77	93.62
			91.48					

K. Srinivas
COORDINATOR

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

P. Anil
HOD
HEAD OF THE DEPARTMENT
Department of CSE (DS)
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 -DS

AY:2022-23

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
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- 2) Who is known as the -Father of AI"? []
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- 3) Select the most appropriate situation for that a blind search can be used. []
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 - d. All of the above

- 4) The application/applications of Artificial Intelligence is/are []
 - a. Expert Systems
 - b. Gaming
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- 5) Among the given options, which search algorithm requires less memory? []
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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
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7) Which of the given language is not commonly used for AI? []

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8) A technique that was developed to determine whether a machine could or could not demonstrate the artificial intelligence known as the__[]

- a. Boolean Algebra
- b. Turing Test
- c. Logarithm
- d. Algorithm

9) The component of an Expert system is .[]

- 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

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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
- c. Condition-action rule
- d. None of the above

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

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- c. Goal-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
- b. Cognitive Science
- c. Relative Symbolism
- d. Pattern Matching

15) The exploration problem is where____.[]

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- b. Agent does not contain the knowledge of State and actions.
- c. Only actions are known to the agent.
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[Handwritten signature]



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
- c. LISP Machines
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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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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
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18. Connectives
19. LISP Machines
20. False Positive Hypothesis

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Department of Computer Science and Engineering

Certificate Program on Artificial Intelligence Question Paper

Student name : D. Mamatha

Reg.No: 208B1A4405

Branch : III CSE -DS

AY:2022-23

18
20

An Introduction to Artificial Intelligence Bits

- 1) Artificial Intelligence is about _____. [b] ✓
- Playing a game on Computer
 - Making a machine Intelligent
 - Programming on Machine with your Own Intelligence
 - Putting your intelligence in Machine
- 2) Who is known as the -Father of AI"? [C] ✓
- Fisher Ada
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- 4) The application/applications of Artificial Intelligence is/are [d] ✓
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Teacher



d. Linear Search

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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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19
20

Department of Computer Science and Engineering

Certificate Program on Artificial Intelligence Question Paper

Student name : M. Maheesh

Reg.No: 208B1A4440

Branch : III CSE -DS

AY:2022-23

An Introduction to Artificial Intelligence Bits

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Maheesh

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(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-DS
YEAR : III-I

Academic year:2022-23

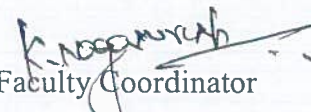
CERTIFICATE PROGRAM ON "ARTIFICIAL
INTELLIGENCE USING MACHINE LEARNING "

STUDENT ASSESSMENT SHEET

S.NO	ROLL NUMBERS	NAME OF THE STUDENT	MARKS
1	208B1A4401	ADUGULA VYSHNAVI	17
2	208B1A4402	BOGOLU SUNITHA RANI	18
3	208B1A4403	BOLLINENI DURGA PRIYA	17
4	208B1A4404	DADI SRILIKHIE	19
5	208B1A4405	DIVI MAMATHA	17
6	208B1A4406	EKAMBARAM ANUSHA	18
7	208B1A4407	GANDI SRAVANI	19
8	208B1A4408	GUDA KARUNASRI NIKHITHA	19
9	208B1A4409	KAMSANI LAVANYA	17
10	208B1A4410	KANCHARLA GAYATHRI	17
11	208B1A4411	KANCHARLA POOJA	18
12	208B1A4412	KODAVANDLA PUJITHA	18
13	208B1A4413	KOLLURI CHANDRIKA	18
14	208B1A4414	KOYI SHALINI	20
15	208B1A4415	MALLISETTY SRAVYA	17
16	208B1A4416	MUTCHU ANUSHA	18
17	208B1A4417	NAGIREDDY SAI BHAVANA REDDY	20
18	208B1A4418	PALAKONDU POOJITHA	18
19	208B1A4419	POLURI SRAVYA	17
20	208B1A4420	PULI SUKANYA	17
21	208B1A4421	RAGHAVA VYSHNAVI	19
22	208B1A4422	RAMALA MOUNIKA	19
23	208B1A4423	SAIMPU PRASANNA	20
24	208B1A4424	SAKHAMURI PUSHPAVALLI	18
25	208B1A4426	SHAIK MOBINA BI	17
26	208B1A4427	SHAIK SUMEENA	19
27	208B1A4428	VELIDI AKANKSHA	18


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S.NO	ROLL NUMBERS	NAME OF THE STUDENT	MARKS
29	208B1A4430	ALLAM VENKATA SAI TEJA	18
30	208B1A4431	BATHULA SRIKANTH	19
31	208B1A4432	BONTHA PAVAN KALYAN	19
32	208B1A4433	CHALLA RAVINDRA	17
33	208B1A4434	GONGALA REDDY VENKATA PAVAN KUMAR REDDY	20
34	208B1A4435	GOPANABOYINA DAIVA PRASAD	18
35	208B1A4437	KODURI SRIHARI	20
36	208B1A4438	KOPPOLU VENKATA DINESH KUMAR	18
37	208B1A4440	MANJULA MAHESH	19
38	208B1A4441	MIDUTURU ADIKESHAVA REDDY	18
39	208B1A4442	MORA SIVA NARAYANA REDDY	17
40	208B1A4443	NELATURI SAI KUMAR	18
41	208B1A4444	NUTHALAPATI VENKATA SUHAS KUMAR	19
42	208B1A4445	PIDIKITI VAMSI KRISHNA	19
43	208B1A4446	RAJAPUTRA SAILOKESH SINGH	19
44	208B1A4447	RAMALA VINAY KUMAR REDDY	17
45	208B1A4448	TANAM SIVA KOTESWARA RAO	19
46	208B1A4449	VATSAVAI ASHOK VARMA	20
47	208B1A4450	YERUVA DEVENDRA REDDY	19


Faculty Coordinator


HOD

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



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VALLURU: ONGOLE.

**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 21th – 25th November 2022 in
RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS**

A handwritten signature in green ink, appearing to read "Vedant".

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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 Market Trading

Online Fraud Detection

Virtual Personal Assistant

Email Spam and Malware Filtering

Self driving cars

Product recommendation

Traffic Prediction

Speech Recognition

Image Recognition

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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:

$$y = a_0 + a_1x + \epsilon$$

Y = Dependent Variable

X = Independent Variable

a_0 = intercept of the line (Gives an additional degree of freedom)

a_1 = Linear regression coefficient (scale factor to each input value).

ϵ = random error



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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:

- Binomial
- Multinomial
- 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:

- Healthcare and Medical diagnosis
- Credit score checking

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- Text Editing
- Hotel Booking
- Gaming
- 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)

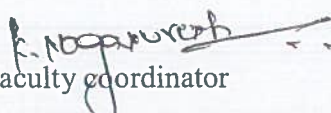
It is also one of the most popular machine learning algorithms that come as a subset of the Supervised Learning technique in machine learning.


Naïve Bayes

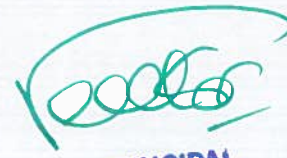
The naïve Bayes algorithm is one of the simplest and most effective machine learning algorithms that come under the supervised learning technique.

Difference between machine learning and Artificial Intelligence

- 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.


Faculty coordinator


HOD
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NH-16, Valluru-523272, Ongole, Prakasam (Dist), Andhra Pradesh, India

Department of Computer Science and Engineering

Date: 25-11-2022.

CLOSING REPORT

To

The Principal

Rise Krishna Sai Gandhi Group of institutions

valluru

As per the approved schedule Rise Krishna Sai Gandhi group of Institutions conducted a **Certificate Program on "ARTIFICIAL INTELLIGENCE USING MACHINE LEARNING"** at CSE Seminar Hall From 21-11-2022 to 25-11-2022 from 09.00 am to 5.00 pm per day. The students of III CSE-DS total 47 are participated in this programme. This Certificate Program head attended N. Narendra, Director, 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

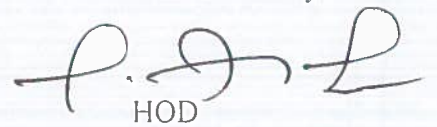
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19. Exploiting problem structure
20. Logic in AI: Different Knowledge Representation systems - 1
21. Uncertainty in AI: Motivation
22. Bayesian Networks: Rejection Sampling
23. Decision Theory: Steps in Decision Theory
24. Reinforcement Learning: Background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

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

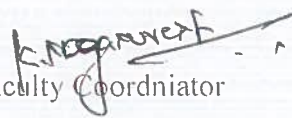
Thanking you sir,

Yours faithfully,




HOD

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Faculty Coordinator



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