

**Report**  
**on**  
**Advanced course**  
**“Artificial Intelligence and Machine Learning”**  
**As a part of**  
**Emerging Technology course**  
**Under**  
**Engineering for sustainable development program**  
**19/06/2021 to 10/07/2021**

**Organized by**



**and**

**Computer Science and Engineering Department**

**In association with**

**H&S Department**

**at**

**KG Reddy College of Engineering & Technology**

**Submitted by**

**Sowjanya Ramisetty**

**Assistant professor**

**Department of Computer Science and Engineering**



**CSE, HoD**  
**HEAD**

DEPT. OF COMPUTER SCIENCE & ENGINEERING  
K.G. REDDY COLLEGE OF ENGINEERING & TECHNOLOGY  
CHILKUR (V), MOINABAD, R.R. DIST. 501 504.



**Principal**  
**PRINCIPAL**

KG Reddy College of Engineering & Technology  
Chilkur (V), Moinabad (M),  
R.R. Dist. Telangana.

### **Four-Week Content Delivery Description**

#### **Week-1 : Supervised Machine Learning and Introduction to HTML and CSS**

First Session taken by Ms Sowjanya Ramisetty, Assistant Professor ,CSE Department-Introduction to Supervised Machine Learning and discussed different algorithms like Support Vector Machine, Decision Tree, K-Nearest Neighbor Algorithm, Naïve Bayes, Linear Regression and Logistic Regression .In Next Session, Speaker has explained the introduction to HTML and CSS - basic syntax and structure, background images, colors and properties, manipulating texts, using fonts, borders, buttons, Text boxes, etc. Students are interacted actively in both sessions.

#### **Week – 2: Hands-on Supervised Machine Learning with Python**

Session taken by Ms Sowjanya Ramisetty, Assistant Professor ,CSE Department -Given Explanation on Working with Supervised Machine Learning Algorithms ,Working with Pycharm IDE and Anaconda Navigator etc., Next, she also explained how to Import Datasets and Apply Algorithms on Datasets .She explained with Real time Examples then the elaborated session has happened with interactive session in between including activities, random questioning and Students are Interacted actively in session. Later on, Students went to lab and installed Softwares then executed programs on Jupyter Notebook.

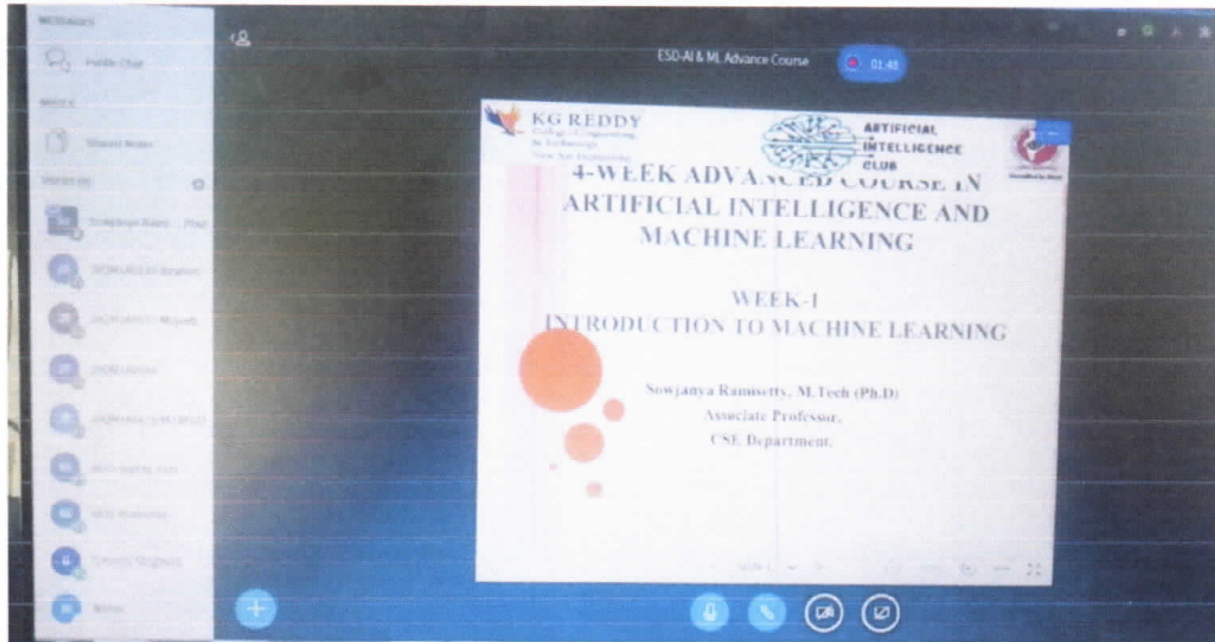
#### **Week – 3: Project Explanation on Supervised Machine Learning (Jupyter Notebook)**

Session taken by Ms Sowjanya Ramisetty, Assistant Professor ,CSE Department, has given Project explanation on Supervised Machine Learning using Jupyter Notebook . Students are Participated actively in the Practical Session then Speaker has divided students as 6 groups and given topics related to supervised machine Learning to students .

#### **Week 4: Power-Point Presentation /Poster Presentation**

Students have given Presentation on selected topics and explained clearly about dataset attributes and also discussed step by step process on how we can predict values by using KNN and Support vector Machine Algorithms. Students are very actively participated in the Session.Later on,We have distributed Certificates to all the Participants.

## Photographs:

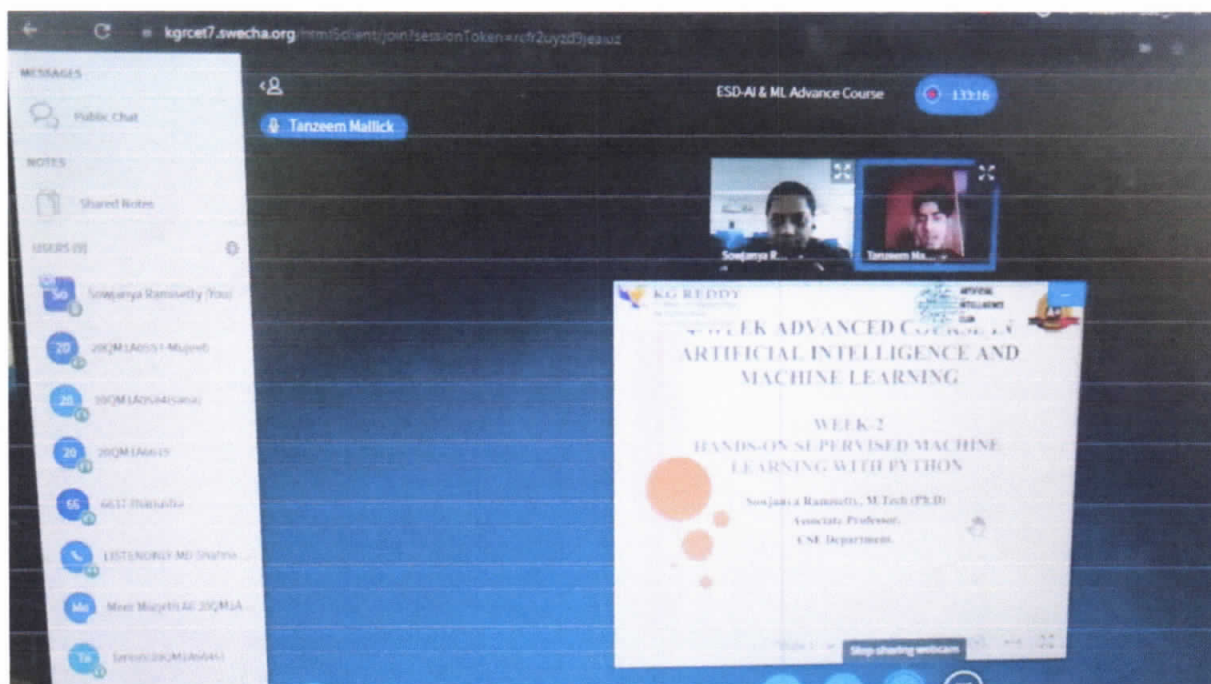


Explaining Introduction to Machine Learning by Ms Sowjanya Ramisetty

The screenshot shows a Jupyter Notebook with Python code for supervised machine learning. The code includes importing libraries, loading data, and a table of data. The table has columns for Year, Agriculture, Industry, AI and Performance, Housing, Business, Communications and Journalism, Computer Science, Education, Engineering, English, Foreign Languages, Health Professions, Arts and Statistics, Physical Sciences, and Geography.

	Year	Agriculture	Industry	AI and Performance	Housing	Business	Communications and Journalism	Computer Science	Education	Engineering	English	Foreign Languages	Health Professions	Arts and Statistics	Physical Sciences	Geography
1	1970	4.227760	4.132105	58.7	28.05790	4.964476	58.7	75.7	74.50325	2.8	35.77862	25.6	77.4	38.0	12.0	89.4
2	1971	5.407757	12.88148	58.9	28.54407	5.407757	58.9	75.8	74.48024	3.5	34.53843	25.8	75.5	38.2	14.5	40.2
3	1972	7.402750	10.274024	59.4	28.05790	5.407757	59.4	76.2	75.70822	3.2	33.84025	25.8	75.5	40.2	14.5	47.6
4	1973	5.407757	10.274024	59.4	28.05790	5.407757	59.4	76.2	75.70822	3.2	33.84025	25.8	75.5	40.2	14.5	47.6
5	1974	7.402750	10.274024	59.4	28.05790	5.407757	59.4	76.2	75.70822	3.2	33.84025	25.8	75.5	40.2	14.5	47.6
6	1975	7.402750	10.274024	59.4	28.05790	5.407757	59.4	76.2	75.70822	3.2	33.84025	25.8	75.5	40.2	14.5	47.6
7	1976	7.402750	10.274024	59.4	28.05790	5.407757	59.4	76.2	75.70822	3.2	33.84025	25.8	75.5	40.2	14.5	47.6
8	1977	7.402750	10.274024	59.4	28.05790	5.407757	59.4	76.2	75.70822	3.2	33.84025	25.8	75.5	40.2	14.5	47.6
9	1978	7.402750	10.274024	59.4	28.05790	5.407757	59.4	76.2	75.70822	3.2	33.84025	25.8	75.5	40.2	14.5	47.6
10	1979	7.402750	10.274024	59.4	28.05790	5.407757	59.4	76.2	75.70822	3.2	33.84025	25.8	75.5	40.2	14.5	47.6
11	1980	7.402750	10.274024	59.4	28.05790	5.407757	59.4	76.2	75.70822	3.2	33.84025	25.8	75.5	40.2	14.5	47.6

Project Explanation on Supervised Machine Learning with Python Programming



### Interaction with Students



## **Objectives and Outcome of the foundational Course in AI and ML.**

### **Objectives:**

- To introduce students to the Advanced concepts and techniques of Artificial Intelligence and Machine Learning.
- To develop skills for solving practical problem

### **Outcome:**

Students will be able to

- Describe the Supervised Machine Learning Algorithms.
- Create Web pages Using Hyper Text Markup Language(HTML) and CSS.
- Implement Machine Learning Project in python Programming (Jupyter Notebook).



**KG REDDY**  
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(Approved by AICTE, New Delhi, Affiliated to JNTUH, Hyderabad)  
Chilkur (Village), Moinabad (Mandal), R. R Dist, TS-501504



## **Course introduction**

**Course Name:** Advanced Course in AI and ML

**Course duration:** 4 – weeks

**Total Number of Students-**30

**Organizing Department:** Institutions Innovation Council

**Collaborations:** H & S dept., Center for Innovation and Social Transformation

**Course offered by** – Artificial Intelligence club, Computer Science and Engineering Department

**Venue:** B-306, KG Reddy College of Engineering and Technology, Hyderabad

**Speakers:** Ms Sowjanya Ramisetty, Assistant Professor, Dept. of CSE, KGRH

Mr Umashanker, Associate Professor, Dept.of H&S,KGRH



Engineering for  
Sustainable  
Development



INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry to Education Initiative)



ARTIFICIAL  
INTELLIGENCE  
CLUB

# 4-WEEK ADVANCED COURSE IN AI/ML HANDS-ON SUPERVISED MACHINE LEARNING WITH PYTHON

Organized by  
Institutions Innovation Council

In Association with  
Department of Humanities and Science,  
Centre for innovation and Social  
Transformation, Centre for Faculty and  
Students Professional Development



**MS SOWJANYA RAMISETTY,**  
Assistant Professor, AI Club Co-ordinator  
Dept. of CSE  
KG REDDY COLLEGE OF  
ENGINEERING AND TECHNOLOGY



**KG REDDY**

College of Engineering  
& Technology

Engineering India's Changemakers

**26<sup>th</sup> June 2021**  
**10.00 AM to 01.00 PM**

Webinar Link :

[https://kgrcet7.swecha.org/  
b/uma-4kx-elj-nqb](https://kgrcet7.swecha.org/b/uma-4kx-elj-nqb)


KGRCET/CSE/AI Club/2020-21/SEM-II/

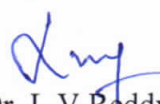
Date: 14/06/2021

## **Department of Computer Science and Engineering**

### **Circular**

All the Students and members of AI Club here by informed that "An Advanced Course on Artificial Intelligence and Machine Learning" is scheduled from 19-06-2021 to 10-07-2021. All of you utilize these Sessions without fail.

  
Ms R. Sowjanya  
**Co-ordinator**

  
Dr. L.V.Reddy  
**HOD-CSE**  
**HEAD**  
DEPT. OF COMPUTER SCIENCE & ENGINEERING  
KG. REDDY COLLEGE OF ENGINEERING & TECHNOLOGY  
CHILKUR (V), MOINABAD, R.R. DIST. 501 504.



**List of Students Attended :08**

- 20QM1A0557-Mujeeb
- 20QM1A0584(sana)
- 20QM1A6619
- 6637-thanusha
- MD Shahnawaz Alam
- Meer Muqeth Ali 20QM1A0422
- Tanish(20QM1A6646)
- Tanzeem Mallick



**Co-ordinator**

**Sowjanya R**  
**Assistant Professor**  
**CSE Department**



## Assessment

[Questions](#) [Responses](#) [Settings](#)

Total points

# 4-Week Advanced Course in Artificial Intelligence and Machine Learning

Speaker Name: Sowjanya Ramisetty, Assistant Professor, CSE Department

Name of The Student

Short answer text

HT Number

Short answer text

Branch

Short answer text



1.The speaker had a good understanding of the topics. \*

1

2

3

4

5

2. How much this session was useful from the knowledge and information point of view \*

1

2

3

4

5



3.The Speaker used Good Examples in the Lecture

1

2

3

4

5



4.How was the overall organization of the lecture? \*

1

2

3

4

5



5.The Speaker encouraged participation in session. \*

1

2

3

4

5





## Assessment

Questions

Responses

Settings

Total points: 1

9 responses



Accepting responses



Summary

Question

Individual

## Insights

Average

0 / 1 points

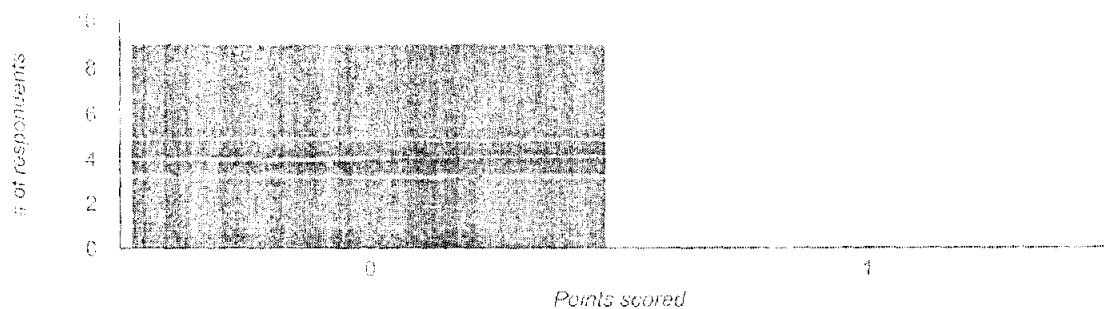
Median

0 / 1 points

Range

0 - 0 points

## Total points distribution





### Name of The Student

9 responses

G Yuvraj Singh

Sana fatima

Meer Muqeth Ali

T. Tanish singh

Tanzeem Mallick

Koppisetty Praveen Vardhan Raju

Jannaru kondaiah

Ibrahim Bin Hassan

Pasam thanusha

## HT Number

9 responses

20QM1A6616

20QM1A0584

20QM1A0422

20QM1A6646

20QM1A7645

20QM1A6625

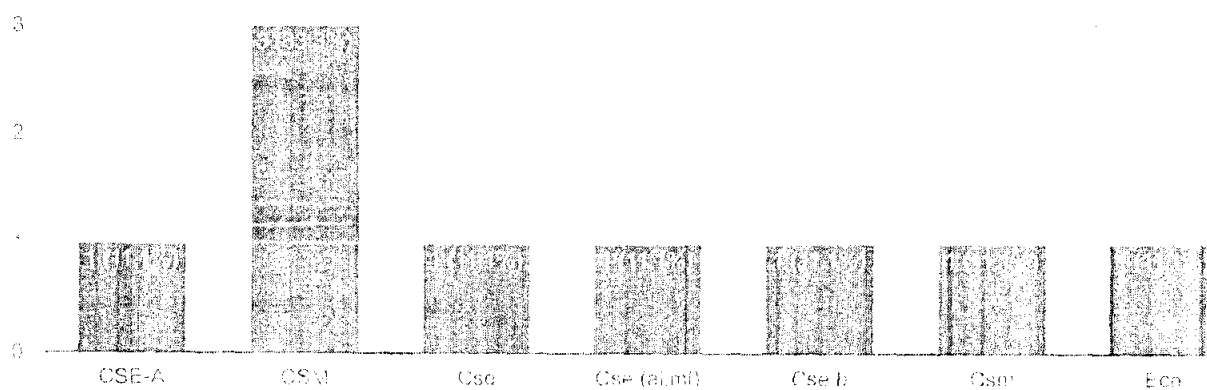
20QM1A0595

20QM1A0535

20QM1A6637

## Branch

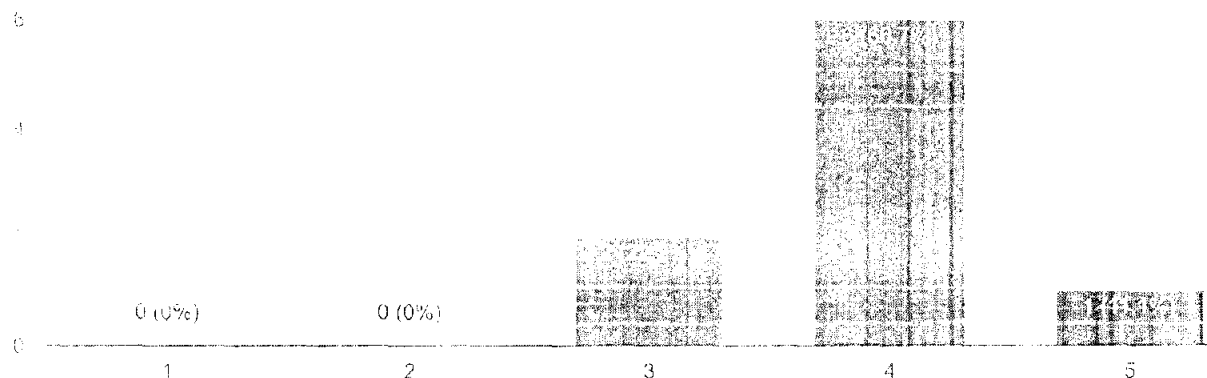
9 responses



1.The speaker had a good understanding of the topics.



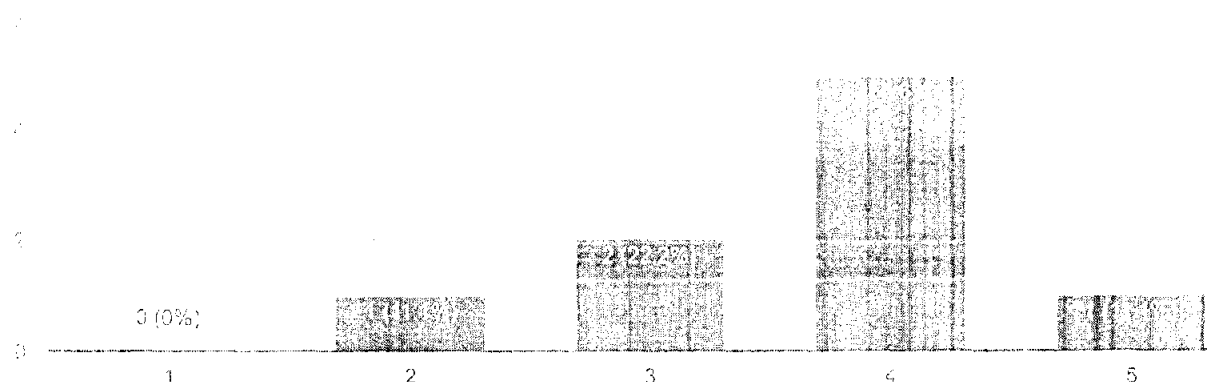
9 responses



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

2. How much this session was useful from the knowledge and information point of view

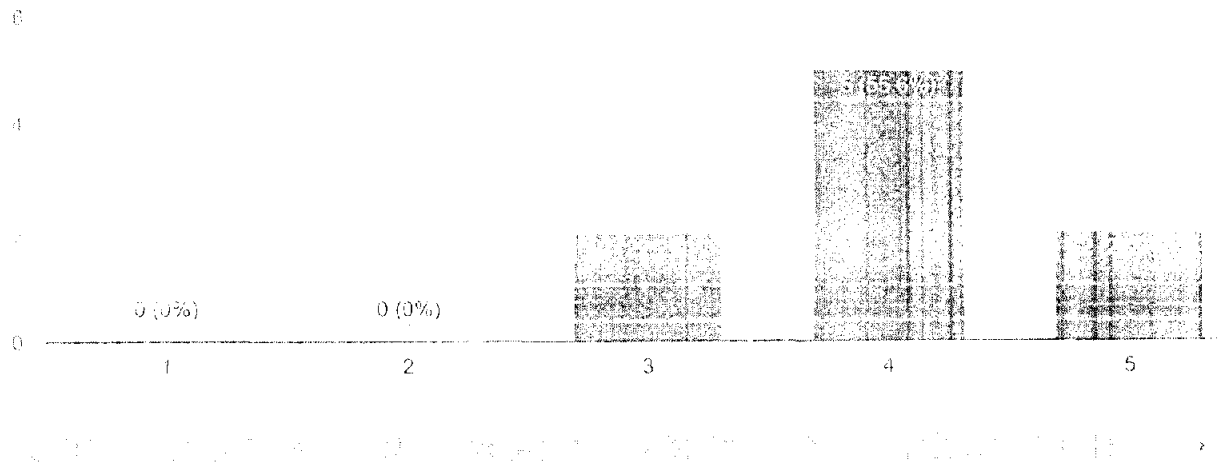
9 responses



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

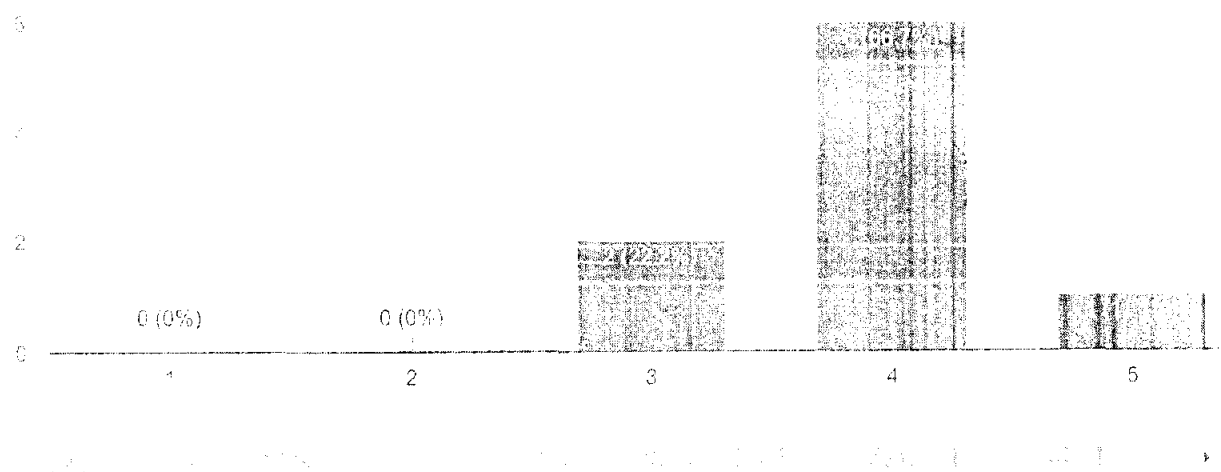
### 3.The Speaker used Good Examples in the Lecture

9 responses



### 4.How was the overall organization of the lecture?

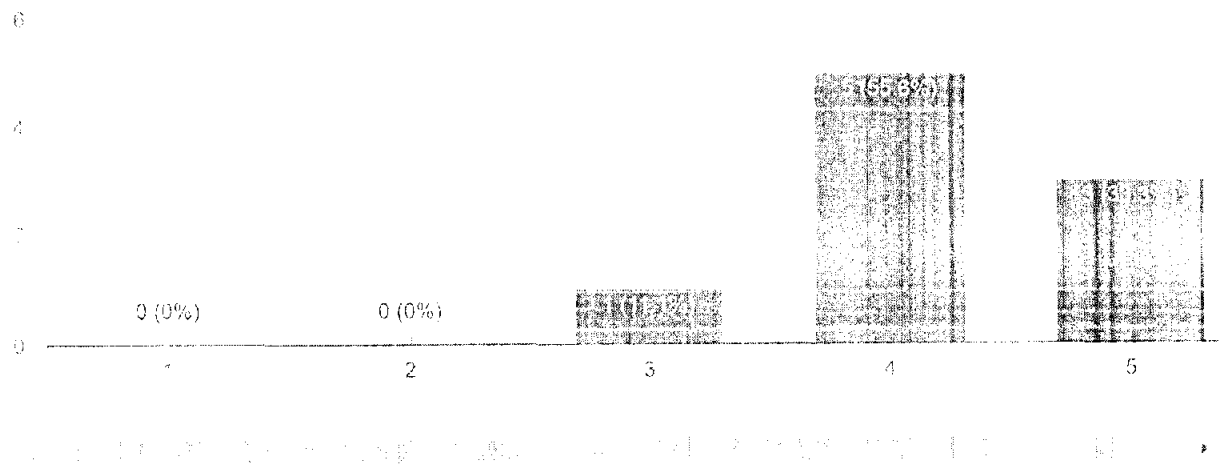
9 responses





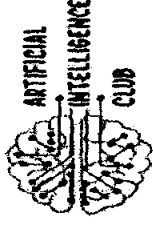
5.The Soeaker encouraged participation in session.

9 responses





KG Reddy College of Engineering and Technology  
Moinabad , Hyderabad-500075, Telangana, India



## CERTIFICATE OF PARTICIPATION

This is to certify that .....M.A.H.D.....ABDUL.....MUNEER..... of .....CSE..... has  
attended "A FOUR-WEEK ADVANCED COURSE ON AI & ML" at KGR CET organized by AI Club ,  
Department of CSE in Association with H&S Department held from 19<sup>th</sup> Jun 2021 to 10<sup>th</sup> July 2021.


CO-ORDINATOR

Ms Sowjanya R

  
CSE, HoD

Dr. L.V.Reddy  
HEAD

DEPT. OF COMPUTER SCIENCE & ENGINEERING  
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CHILKUR (V), MOINABAD, R.R. DIST 501 504.

  
H&S, HoD

Mr. Umashanker

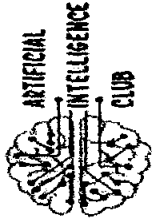
  
PRINCIPAL

Dr. R.S.Jahagirdar  
PRINCIPAL

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R.R. Dist. Telangana.



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## CERTIFICATE OF PARTICIPATION

This is to certify that .....*Tanzeem... Mallick*..... of .....*C.S.M.*..... has  
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CO-ORDINATOR

Ms Sowjanya R

*[Signature]*  
CSE, HoD

Dr. L. V. Reddy  
HEAD

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*[Signature]*  
H&S, HoD

Mr. Umashanker

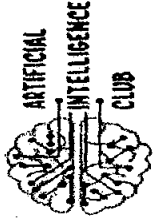
*[Signature]*  
PRINCIPAL

Dr. R.S. Jahagirdar  
PRINCIPAL

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R.R. Dist. Telangana.



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