**Guest Lecture on "Machine Learning"**

Date: 18-08-2023

Our Department of Computer Science and Engineering has organized a day seminar on "Machine Learning" by Mr Polisetty Lakshmi Narayana Asst. Prof., Department of CSE, NRI Institute of Technology on 18-08-2023.

Mr Polisetty Lakshmi Narayana has started the session at 10:00 AM. He has explained the topics related to Machine Learning.



Kethabakonda, Andhra Pradesh, India
RK COLLEGE OF ENGINEERING Kethanakonda, Andhra Pradesh 521181, India
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Long 80.463485°
18-08-2023 2:13 PM GMT +05:30

**Coordinator-IQAC**
**RKCE**

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Vijayawada, AMARAVATI-521 456

Topics Covered:

He gave a brief introduction to the foundational concepts of machine learning:

➢ Supervised Learning

➢ Unsupervised Learning

➢ Reinforcement Learning

➢ Semi-Supervised Learning

Followed by this, he discussed three important categories of machine learning algorithms, providing clear differences among them based on their purpose, input-output relationships, and learning mechanisms:

➢ Regression

➢ Classification

➢ Clustering

Further, he continued the discussions with four key stages of a typical machine learning workflow, highlighting the importance and differences in their roles:

➢ **Data Preprocessing** (Data Cleaning, Feature Scaling, Feature Engineering)

➢ **Model Selection and Training**

➢ **Model Evaluation**

➢ **Model Deployment**

Finally, he concluded by describing the evaluation metrics used to assess the performance of machine learning models, explaining their significance in different contexts:

➢Accuracy, Precision, Recall, and F1-Score (for Classification)

➢ **Mean Absolute Error (MAE), Mean Squared Error (MSE), and R-Squared** (for Regression)

➢ **Silhouette Score and Davies-Bouldin Index** (for Clustering).

All Third year students have participated in the seminar. Seminar concluded with the vote of thanks by Mr.K.Koteswara Rao, HOD-CSE, RKCE.

**Coordinator-IQAC**
**RKCE**

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# R K COLLEGE OF ENGINEERING

## (Accredited by NAAC with 'A' Grade)

Kethanakonda (V), Ibrahimpatnam (M), Vijayawada, AMARAVATI-521456.

Guest Lecture on "Machine Learning"

Attendance Sheets

| S.NO | ROLL No. | NAME OF THE STUDENT | Sign |
|------|----------|---------------------|------|
| 1 | 21MC1A0501 | ABDUL MOBEEN | A.MObeen |
| 2 | 21MC1A0503 | ALLA VENKATA RAJESH | |
| 3 | 21MC1A0505 | ANGA CHARAN RAJ | |
| 4 | 21MC1A0507 | BAIREDLA SANJU NAIDU | |
| 5 | 21MC1A0509 | BATTULA BALAKOTAIAH | |
| 6 | 21MC1A0511 | BHUKYA VENKATESWARLU NAIK | |
| 7 | 21MC1A0514 | BOMMIREDDY UMA MAHESWARI | |
| 8 | 21MC1A0517 | CHELLUBOINA DILEEP | Dleep |
| 9 | 21MC1A0519 | CHENNAMRAJU KEERTHI | |
| 10 | 21MC1A0521 | DANDIBOINA VENKATA NANDINI | |
| 11 | 21MC1A0523 | DASARI MEGHANA | Meghana |
| 12 | 21MC1A0526 | DHANEKULA VENKATESH | |
| 13 | 21MC1A0528 | EEVURI VIJAYA LAKSHMI | Venkatesh |
| 14 | 21MC1A0530 | GAGGARA CHANDU KOUSHIK | |
| 15 | 21MC1A0532 | GHANTASALA YESU RAJU | |
| 16 | 21MC1A0533 | GODINA VENKATA SAI SAHASRA | |
| 17 | 21MC1A0536 | GOTHALA HARISH YADAV | |
| 18 | 21MC1A0539 | JANAMALA HARI KRISHNA | Hari |
| 19 | 21MC1A0541 | JAVISETTY VAMSI KRISHNA | |
| 20 | 21MC1A0543 | KADALI MOUNIKA | |
| 21 | 20MC1A0512 | CHALLA ANUSHA | |
| 22 | 20MC1A0517 | DANDU VENKATA CHALAPATHI | |
| 23 | 20MC1A0523 | GALIPOTHULA SANTHOSH KUMAR | |
| 24 | 20MC1A0528 | GURRALA MOUNIKA | Mounika |
| 25 | 20MC1A0533 | INUPANURTHI PUSHPA MADHURI | |
| 26 | 20MC1A0538 | KARNATI SAI PRABHU | |
| 27 | 20MC1A0543 | KATIKI BALAKRISHNA | K.Balakrishna |
| 28 | 20MC1A0547 | KORAGANJI VENU KUMAR | |
| 29 | 20MC1A0554 | MANAVASI SIVA KUMAR | |
| 30 | 20MC1A0558 | MEKA ASWINI | Aswini |
| 31 | 20MC1A0569 | PANTAPALLE BHARGAVI | P.Bhargu |
| 32 | 20MC1A0563 | NALLADIMMU VENKATA SUBBAREDDY | |
| 33 | 20MC1A0575 | PONUGUPATI AJAY KUMAR | Ajay |
| 34 | 20MC1A0579 | REDDEM VEERA SIVANJANEYA REDDY | |
| 35 | 20MC1A0586 | SRIHARI MANNEPALLI | S.Mannepalli |
| 36 | 20MC1A0593 | VUDIGA VINAY KUMAR | Kumar |
| 37 | 20MC1A05A0 | KAMANABOINA CHARITHA | |
| 38 | 21MC5A0505 | K L NARASIMHA BADRI ASHISH | |
| 39 | 21MC5A0509 | NELLURI JEEVAN KUMAR | Jeevan |

| 40 | 21MC5A0514 | SHAIK IBRAHEEM | |
|----|------------|----------------|---|
| 41 | 21MC1A0574 | MOKA CHAKRAVARTHI | |
| 42 | 21MC1A0578 | OBILLANENI TEJASWINI | |
| 43 | 21MC1A0583 | PANTAPALLI BHUVANESWARI | |
| 44 | 21MC1A0587 | PEMULA SUMANTH | |
| 45 | 21MC1A0592 | POTHUGANTI APPARAO | |
| 46 | 21MC1A0596 | R SREE VIDYA | |
| 47 | 21MC1A05A1 | SAKAM RANGA SWAMY REDDY | |
| 48 | 21MC1A05A6 | SHAIK UDAY | |
| 49 | 21MC1A0512 | BHUMA GANGADHAR NAIDU | |
| 50 | 21MC1A0518 | CHENNADI KHYATHI | |
| 51 | 21MC1A0522 | DARGA DINESH | |
| 52 | 21MC1A0525 | DHANALAKOTA DENI SRILAKSHMI | |
| 53 | 21MC1A0502 | ADAPA JEEVAN KUMAR | |
| 54 | 20MC1A0506 | BHIMIREDDI LOVA SATISH | |
| 55 | 21MC1A0518 | CHENNADI KHYATHI | |
| 56 | 21MC1A0522 | DARGA DINESH | |

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