

R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

Guest Lecture on "Machine Learning"

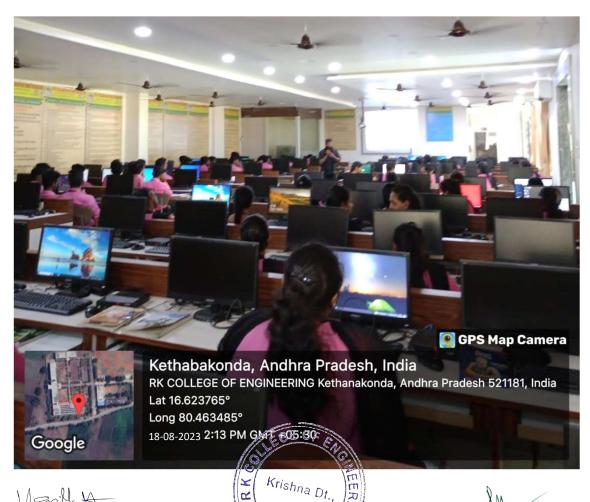
Date: 18-08-2023

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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.



Coordinator-IQAC

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 Raos Hob CSE RKCE.

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Attendance Sheets

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12	21MC1A0526	DHANEKULA VENKATESH	Veil
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17	21MC1A0536	GOTHALA HARISH YADAV	CHATT
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