



DEPARTMENT OF CIVIL ENGINEERING

Details of Guest Lecture For the month of August-2023

Topic: Machine Learning for Structural Engineering.

Speaker: Dr. Veerendrakumar C Khed, Associate Professor, Department of Civil Engineering, KLE Technological University, Belgaum, Karnataka, India.

Date: 18th August 2023

Time: 11:00 A.M – 12:00 P.M

Venue: Online

Overview:

The lecture commenced with an opening address of the speaker from the student coordinator, G. Uday Sai Krishna. During the presentation, the speaker delved into several different concepts regarding Machine learning methods such as Supervised, Unsupervised and Reinforcement methods in Structural Engineering. The aspects of implementing machine learning algorithms in the field of structural engineering were also discussed. The lecture explored how machine learning algorithms can be employed to anticipate structural failures and improve design approaches and offers an exceptional chance to enhance the predictability of structural engineering. Subsequently, an engaging interactive session unfolded, during which students posed a variety of questions. The lecture was then wrapped up with a vote of thanks by Dr. M Achyutha Kumar Reddy, expressing gratitude on behalf of the session. The post-lecture feedback survey revealed that a significant number of participants found contentment with the presentation, indicating that they found the material informative and knowledgeable.

Lecture Visuals:



Dr. Veerendrakumar C Khed

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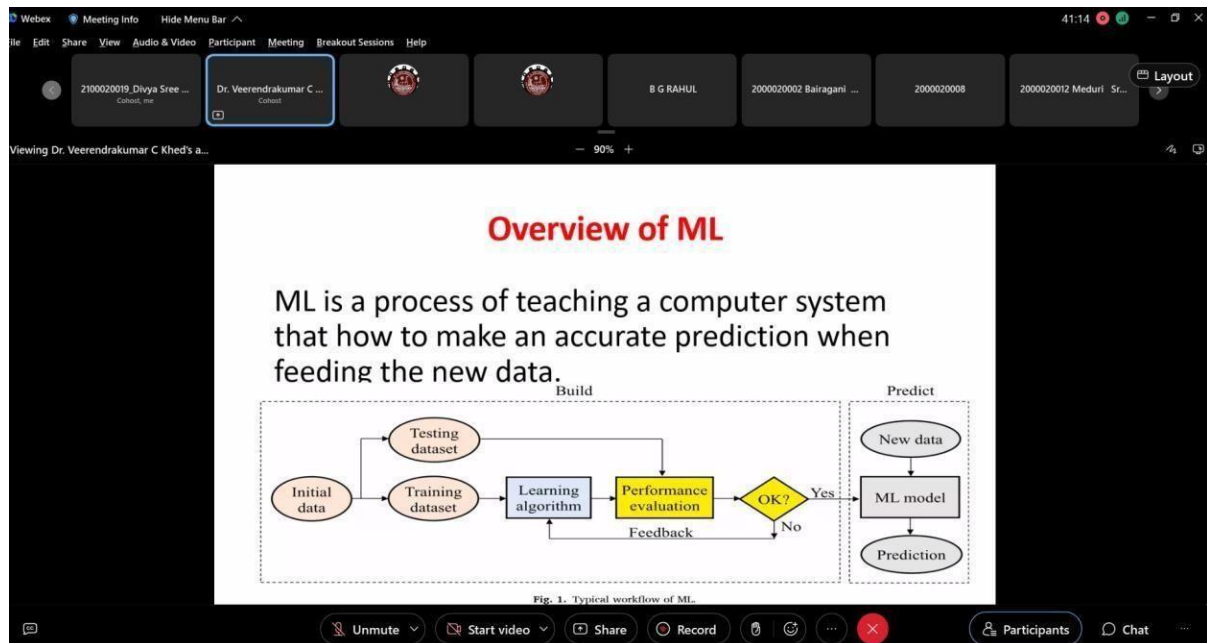
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KLE Technological University
Creating Value
Leveraging Knowledge

Machine learning for structural engineering

Dr. Veerendrakumar C Khed
Associate Professor
KLE Technological University, Belagavi, Karnataka

ai/ml
ACCELERATING INNOVATION



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Dr. Veerendrakumar C Khed

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Layout

Viewing Dr. Veerendrakumar C Khed's a... 90%

Overview of ML

ML is a process of teaching a computer system that how to make an accurate prediction when feeding the new data.

```
graph LR
    subgraph Build
        ID([Initial data]) --> TD([Training dataset])
        ID --> TeD([Testing dataset])
        TD --> LA[Learning algorithm]
        LA --> PE[Performance evaluation]
        PE --> OK{OK?}
        OK -- No --> LA
        OK -- Yes --> Predict
    end
    subgraph Predict
        ND([New data]) --> ML[ML model]
        ML --> P([Prediction])
    end
```

Fig. 1. Typical workflow of ML.

Unmute Start video Share Record Participants Chat

Event Coordinator

Dr. M Achyutha Kumar Reddy

KLEF
Department of Civil Engineering

Guest lecture (Online) on "Machine Learning for Structural Engineering"

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Dr. M. Achyutha Kumar Reddy

HoD - CE

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