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43 YEARS OF
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Guest lecture (Online)

MACHINE LEARNING FOR STRUCTURAL ENGINEERING

18th August 2023 @ 11:00 a.m.



Resource Person:

Dr. Veerendrakumar C Khed,

*Associate Professor,
Department of Civil Engineering,
KLE Technological University,
Belgaum, Karnataka, India - 590008.*

Event Coordinator

Dr. M. Achyutha Kumar Reddy

Asst Professor, Dept of Civil Engineering, KL.

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Student Coordinators

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3rd Year Student, Dept of Civil Engineering, KL

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Meeting Link:

<https://kluniversity.webex.com/kluniversity/j.php?MTID=m0dab7f45cfbd5380341aa2ac7c80a6ff>

Guest lecture (Online) on “Machine Learning for Structural Engineering” by the

Department of CE, KLEF – Reg.

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Sat 12-08-2023 14:03

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Ref: KLEF/RO/CE/2023-24

Date: 12-08-2023

Orders of the Hon'ble Vice-Chancellor dt. 12-08-2023

CIRCULAR

Sub: Guest lecture (Online) on “Machine Learning for Structural Engineering” by the Department of CE, KLEF – Reg.

Ref: 1. Le er dt. 11-08-2023 from Dr. P. Polu Raju, HoD-CE
2. Orders of Hon'ble Vice-Chancellor dt. 12-08-2023

This is to inform that the Department of Civil Engineering, KLEF, will be organizing a Guest lecture (Online) on “**Machine Learning for Structural Engineering**” on 18th August 2023.

Details of the Resource Person : Dr. Veerendrakumar C Khed, Associate Professor,

Department of Civil Engineering,

KLE Technological University, Belgaum, Karnataka, India-590008.

Date and time : 18th August 2023 & from 11:00 A.M.

Interested candidates can register themselves by clicking on the link given below.

Link to join the session:

<https://kluniversity.webex.com/kluniversity/j.php?MTID=m0dab7f45c d5380341aa2ac7c80a6ff>

For further information on Guest lecture (Online) please contact Faculty Coordinators or Student Coordinator

Event Coordinators

Dr. M. Achyutha Kumar Reddy, Assistant Professor, Department of Civil Engineering, KLEF

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Student Coordinators:

Mr. G. Uday Sai Krishna, 3rd Year Student, Department of Civil Engineering, KLEF

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Ms. Divya Sree Dhoni, 3rd Year Student, Department of Civil Engineering, KLEF

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Encl: Brochure.

REGISTRAR

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All Faculty

All Students

Thanks & Regards



Dr. K. Subba Rao
REGISTRAR

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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
Associate Professor
KLE Technological University, Belagavi, Karnataka

Machine learning for structural engineering

ai/ml
ACCELERATING KNOWLEDGE

KLE TECH
KLE Technological University
Creating Value
Leveraging Knowledge

The slide features the KLE Technological University logo at the top left, followed by the university name and tagline. Below this is a 3D architectural rendering of a building. The main title 'Machine learning for structural engineering' is in large orange font. The presenter's name and title are centered below the title. At the bottom left is the 'ai/ml' logo with the tagline 'ACCELERATING KNOWLEDGE'.

Overview of ML

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

Build

Predict

Initial data → Training dataset → Learning algorithm → Performance evaluation → OK? → Yes → ML model → Prediction

Testing dataset → Performance evaluation → Feedback → Learning algorithm

New data → ML model → Prediction

Fig. 1. Typical workflow of ML.

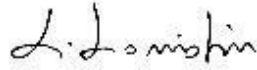
The slide is displayed within a Webex meeting window. The window title bar shows 'Webex Meeting Info' and '41:14'. The top toolbar includes 'File', 'Edit', 'Share', 'View', 'Audio & Video', 'Participant', 'Meeting', 'Breakout Sessions', and 'Help'. A participant list at the top shows several names, with 'Dr. Veerendrakumar C...' highlighted. The slide content includes a flowchart of the ML workflow, divided into 'Build' and 'Predict' phases. The 'Build' phase starts with 'Initial data' which is split into 'Training dataset' and 'Testing dataset'. The 'Training dataset' goes to 'Learning algorithm', which then goes to 'Performance evaluation'. The 'Testing dataset' also goes to 'Performance evaluation'. From 'Performance evaluation', a decision diamond asks 'OK?'. If 'Yes', it proceeds to 'ML model' in the 'Predict' phase. If 'No', it loops back to 'Learning algorithm' via a 'Feedback' arrow. The 'Predict' phase starts with 'New data' which goes to 'ML model', resulting in 'Prediction'. A caption at the bottom of the slide reads 'Fig. 1. Typical workflow of ML.' The bottom toolbar of the Webex window includes 'Unmute', 'Start video', 'Share', 'Record', 'Participants', and 'Chat'.

Event Coordinator

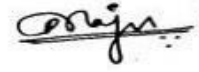
Dr. M Achyutha Kumar Reddy



Faculty in-charge
(Dr. Anu Mary Ealias)



IQAC in-charge
(Dr. A. Aravindan)



HOD CE
(Dr. P. Poluraju)

KLEF
Department of Civil Engineering

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

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Event Coordinator

Dr. M. Achyutha Kumar Reddy

HoD - CE

Dr. P. Poluraju

