

Webinar on “Real Time Application of Machine Learning Algorithm” In Association with Oracle Volunteering on 30th June 2021

The Department of MCA, DSCASC organized series of webinars in collaboration with oracle volunteering. As a part of it, session 4 was conducted on 30th June 2021. The speaker explained various terminologies in Data Analytics and Machine Learning. He discussed various ML algorithms and real time applications of ML. He gave explanation on ML workflow such as defining the problem, data preparation, modelling, deployment and tracking. Students were motivated to do certifications.

Dayananda Sagar College of Arts, Science and tCommerce
Department of Computer Applications - MCA

CENTER OF EXCELLENCE - BIG DATA ANALYTICS

SESSION 4: REAL TIME APPLICATION OF MACHINE LEARNING ALGORITHM

DATE: 30TH JUNE 2021
TIME: 11 A.M TO 12:30 P.M

EXPERT:
Nitin Rawat,
Senior Member
of
Technical Staff

organises
WEBINAR SERIES
In Association with
ORACLE
Volunteering

Photo 1 : Brocher

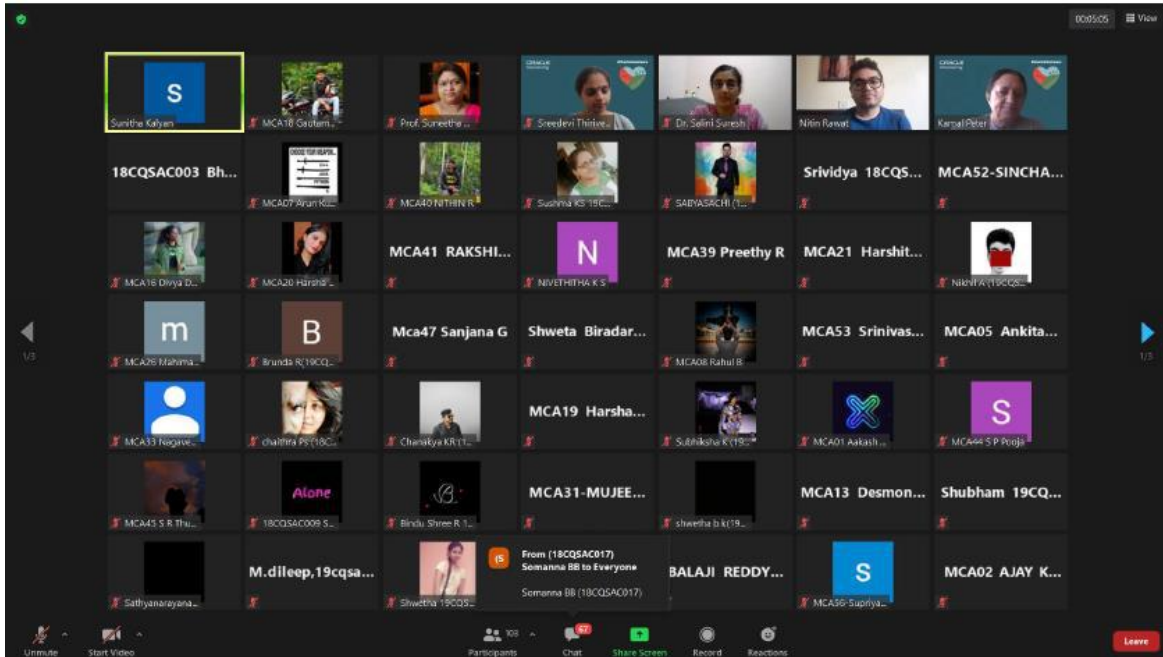


Photo 2: Welcome address by Prof. Suneetha

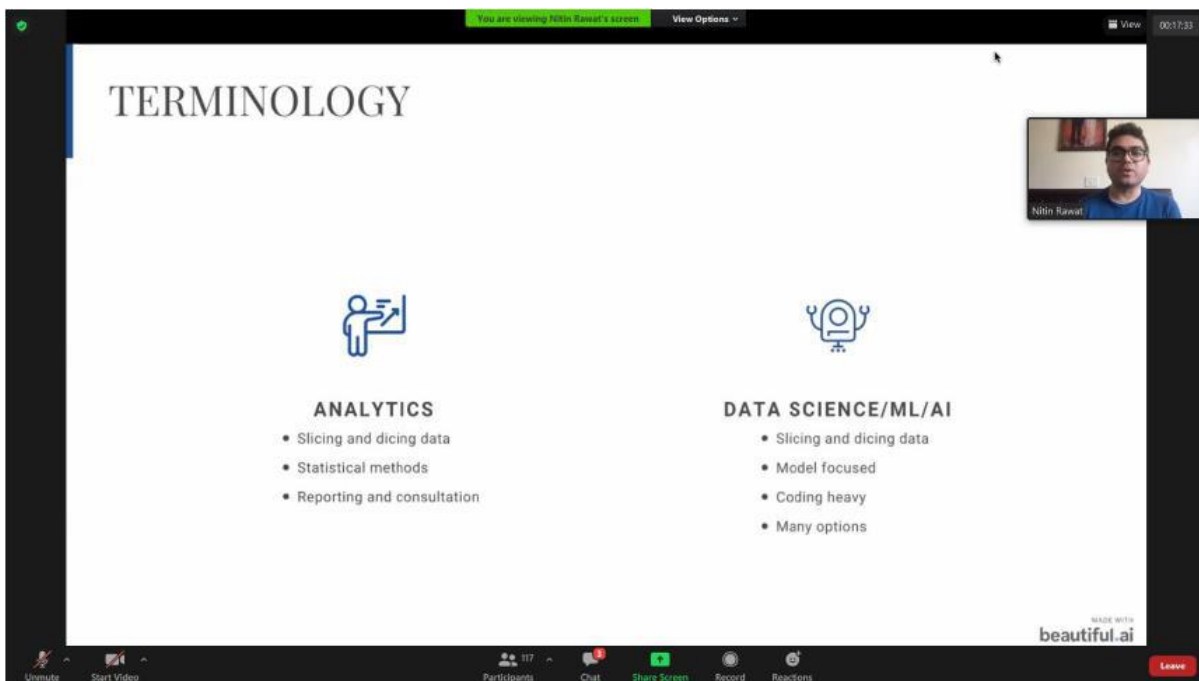



Photo 3: Analytics and Data Science Terminology


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ML applications




STRUCTURED DATA

- Tabular data
- The available columns have interpretable meaning
- It is not possible for a person to infer the relationship between the data and the outcome quickly
- So no predefined idea of what is a good model performance.



LANGUAGE

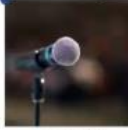
- Text data
- The individual words have interpretable meaning but context is important
- A person can infer the relationship and the outcome (like sentiment, language, translation)
- We usually have human benchmarks available



Unstructured data

VISION

- Pixel data
- The individual pixels represent interpretable colors but context is important
- A person can infer the relationship and the outcome (like image type, image to text etc)
- We usually have human benchmarks available



SPEECH

- Digitized sound wave data
- The individual portions of the sound wave have no interpretable meaning
- A person can infer the relationship and the outcome (like speech to word, sound type etc)
- We usually have human benchmarks available

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Photo 4: ML Applications

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Example 1 - Risk modeling

- **SITUATION -**
Customers who have small businesses, come on the Kabbage platform looking for loan. How do you decide whom to give loan vs not?
- **TASK -**
Given the information you have about an applicant how do you predict the risk of the customer

- **ACTION**
 - Frame as an ML problem - Classification problem where we predict if a customer would default
 - Gather data - Customer financial data, business data
 - Explore the data and modeling techniques
 - Track
- **RESULT**
 - Model that automatically scores customer real time

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Photo 5: ML Solutions to Risk Modelling