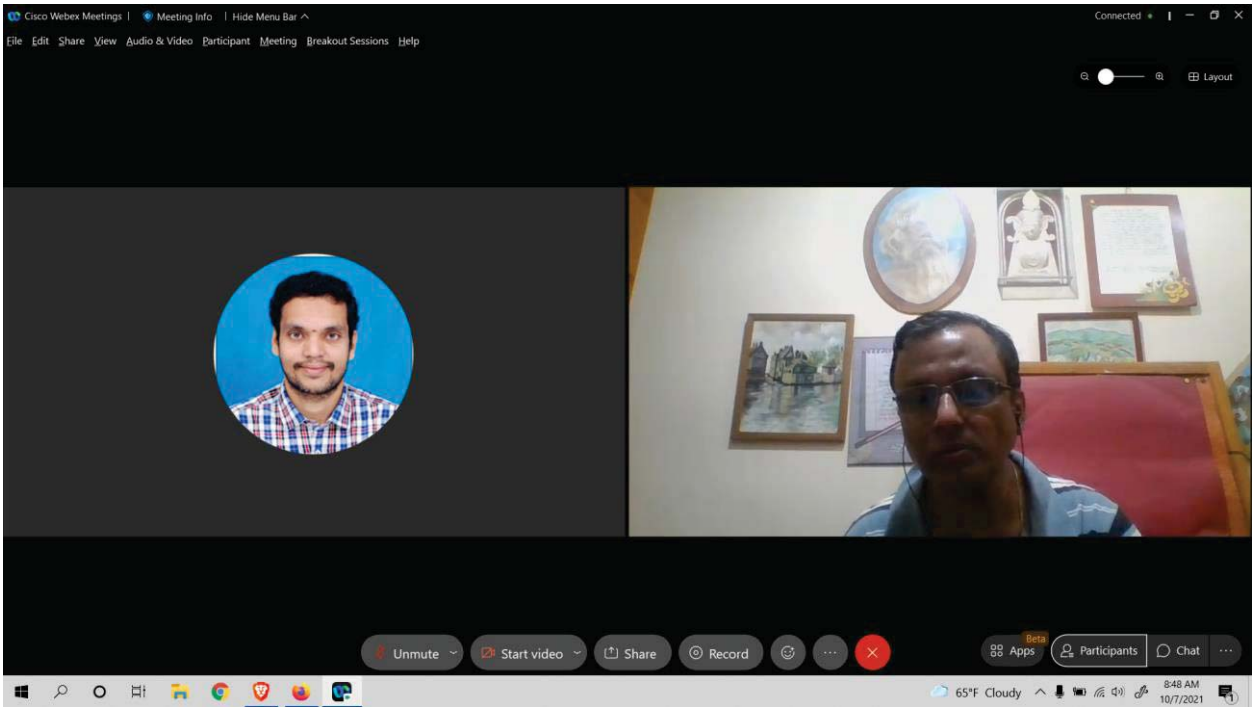
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Two Day Hands-on Workshop on "Machine Learning supervised model using Python"

REPORT OF WORKSHOP

The Department of Computer Science and Engineering has organized a Two Day Hands-on Workshop on **"Machine Learning supervised model using Python"** during **07th – 08th October 2021** for the third year students of CSE Department.



A total of 200 students have attended the workshop. Mr ARUNJIT CHOWDHURY, CEO, EBT has acted as the resource person for this workshop. This workshop has been organized by Artificial Intelligence and Machine Learning Research group of Department of Computer Science and Engineering. Dr K Survarna Vani, Research Group Coordinator along with Dr M Sobhana and Ms S Rajeswari coordinated the event. The workshop has been organized from 9 AM till 11.30 AM on both the days.

Day1: 7th October 2021

Speaker: Arunjit Chowdary
CEO
Enterprise Building Taining Solutions

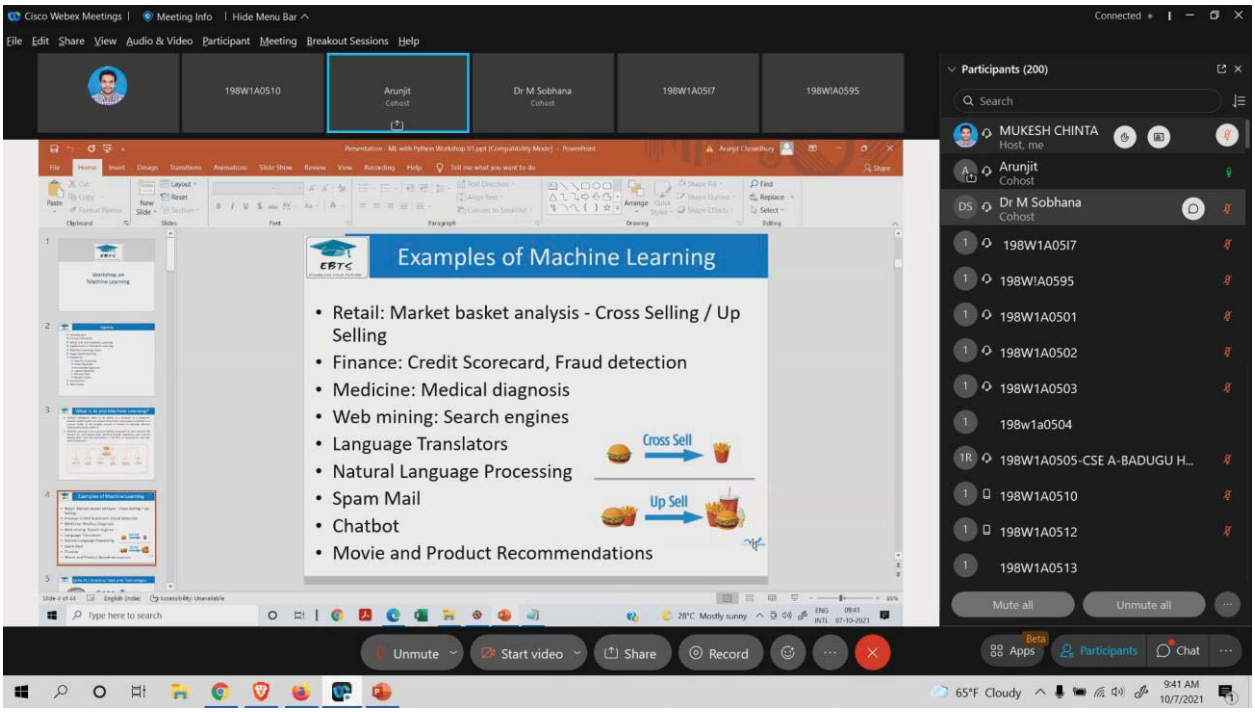
Topic: Types of Machine learning

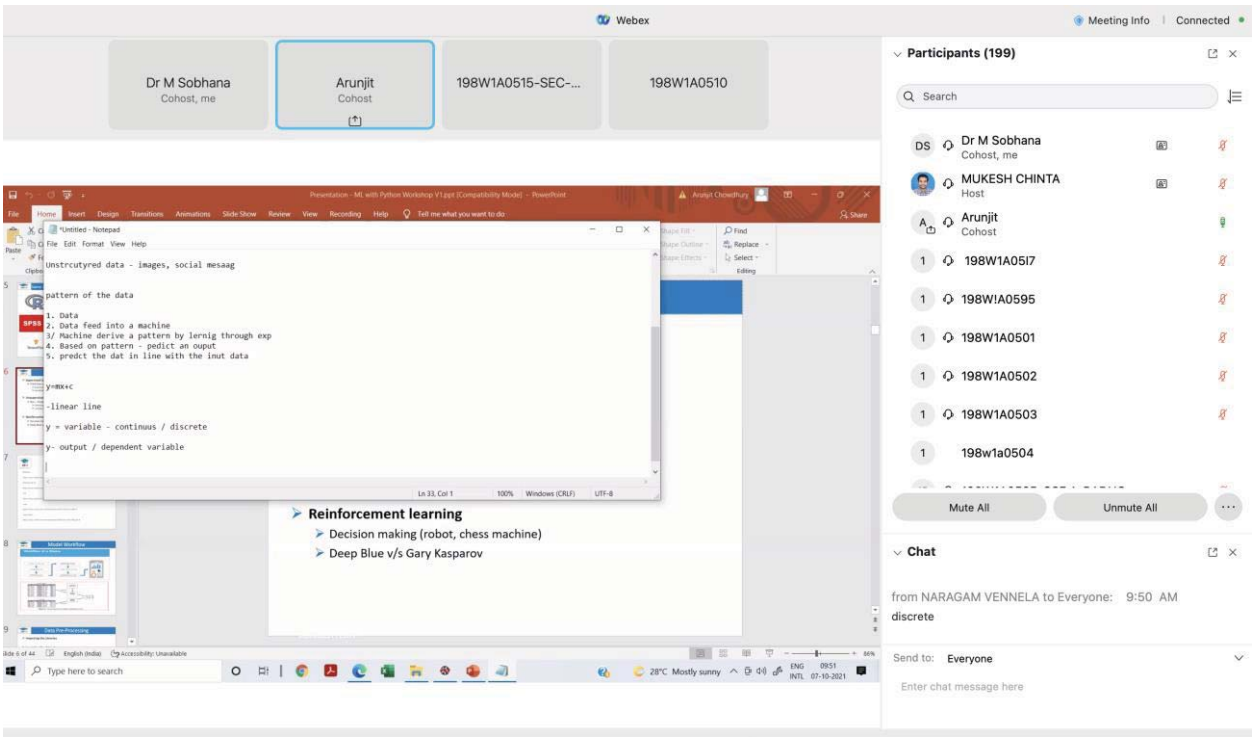
This session was handled by Arunjit Chowdary sir , he handled the session on teaching the difference between artificial intelligence and machine learning and discussed the applications of machine learning as

1.Retail:Market Basket Analysis-Crosss selling /up selling
2.Finance:Credit score card, Fraud Detection.
3.Medicine:Medical Diagnosis
4.Web mining
5.Langauge translators.

He also explained the various types of machine learning as supervised learning, unsupervised learning and reinforcement learning with real world scenarios.

He explained the workflow of machine learning model as importing of libraries, importing the dataset, preprocessing the data (handling missing values, categorical values,scaling),fitting a model to the data, performance evaluation of the model.





Day2: 8th October 2021

Speaker: Arunjit Chowdary
CEO
Enterprise Building Taining Solutions

Topic: Types of Regression and Classification

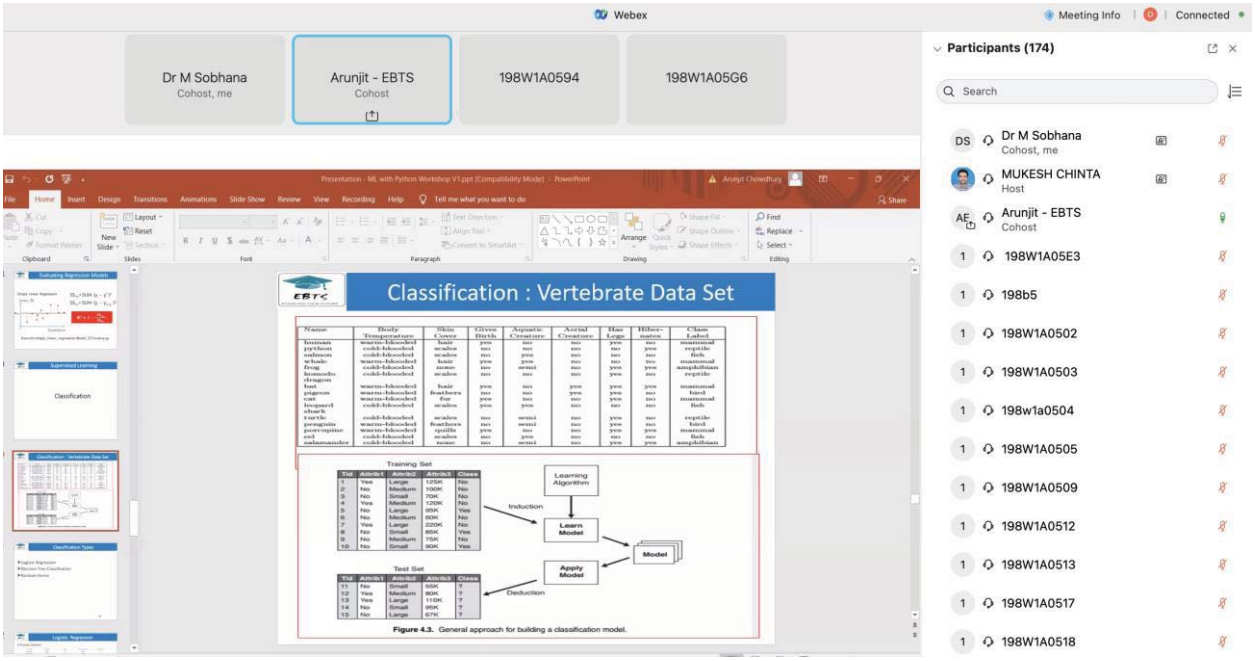
This session was handled by Arunjit Chowdary sir , he discussed on the various types of regression like

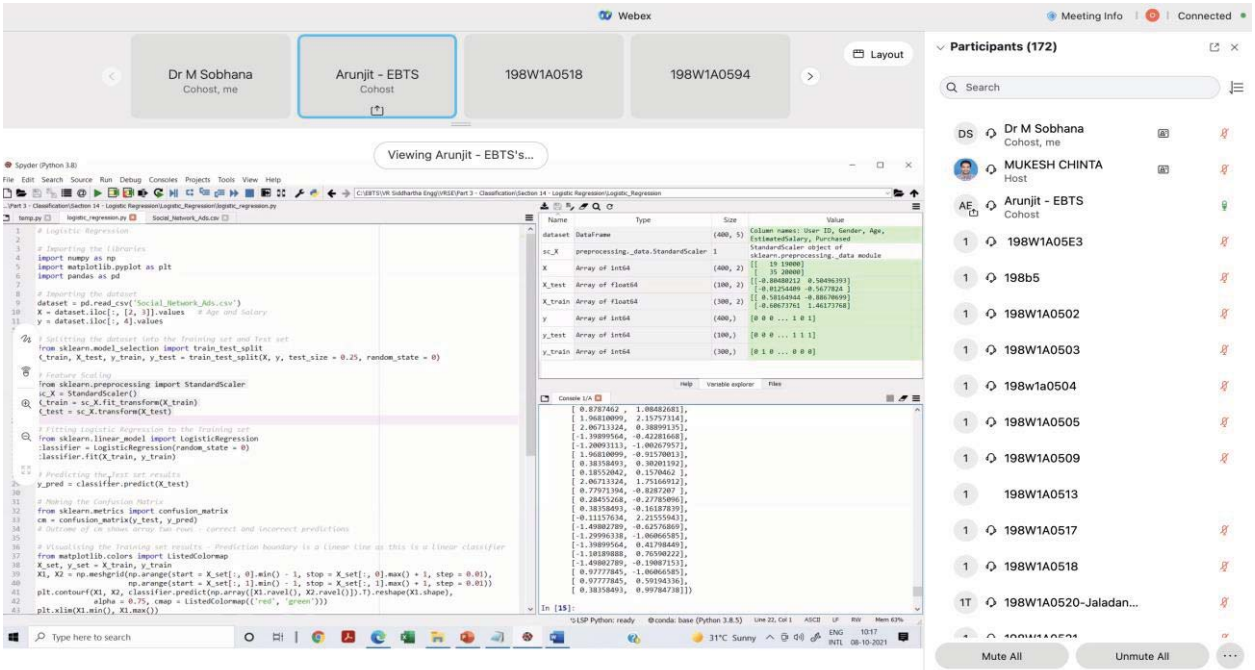
1.Univariate regression
2.Multivariate regression
3.Polynomial regression

Univariate regression: It focuses on determining relationship between one independent (explanatory variable) variable and one dependent variable. Multivariate regression: A type of regression that provides a mathematical model that attempts to explain or predict the dependent (outcome or target) variable by simultaneously considering 2 or more independent (or predictor) variables.

Polynomial regression: Polynomial regression is a form of regression analysis in which the relationship between the independent variable x and the dependent variable y is modelled as an nth degree polynomial in x.

He enlightened the students with the code related to classification of data using an example. He made the session interactive by conducting a quiz on the topics discussed in the sessions by dividing the students into three groups.





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Towards the end of the session, the coordinator Dr. M.Sobhana conveyed her vote of thanks to the speaker who enlightened the students on the scope of projects in Machine learning.