Government Engineering College, Gandhinagar

Getting started with Machine Learning

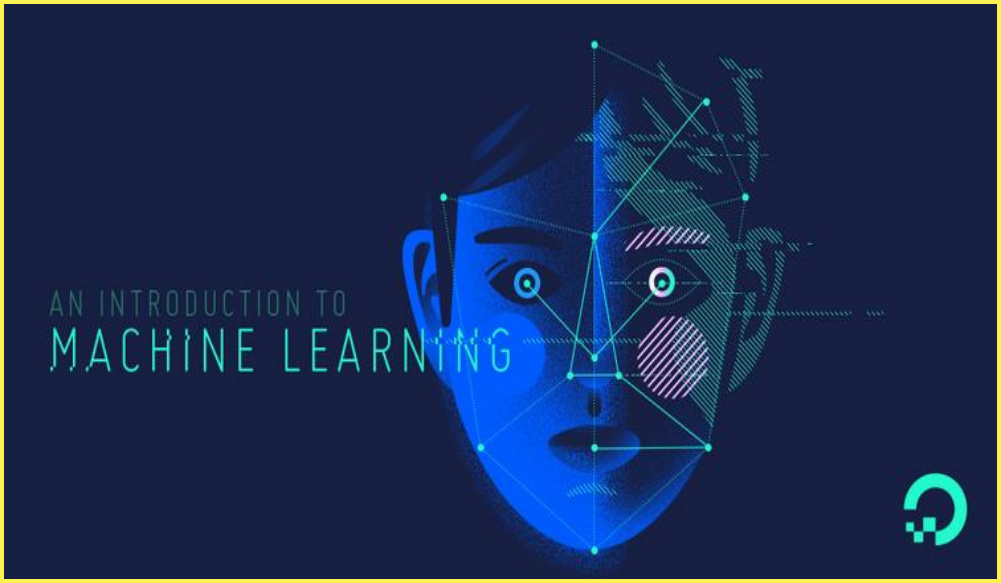
"Baby steps in Machine Learning with Google Colabs"

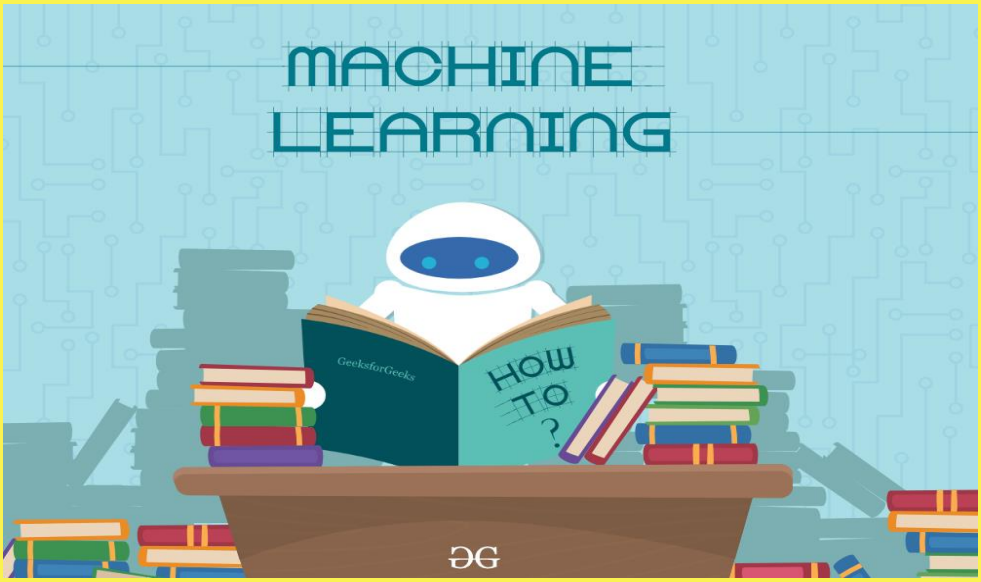
Date: 04 July 2020

Time: 04:30 PM onwards

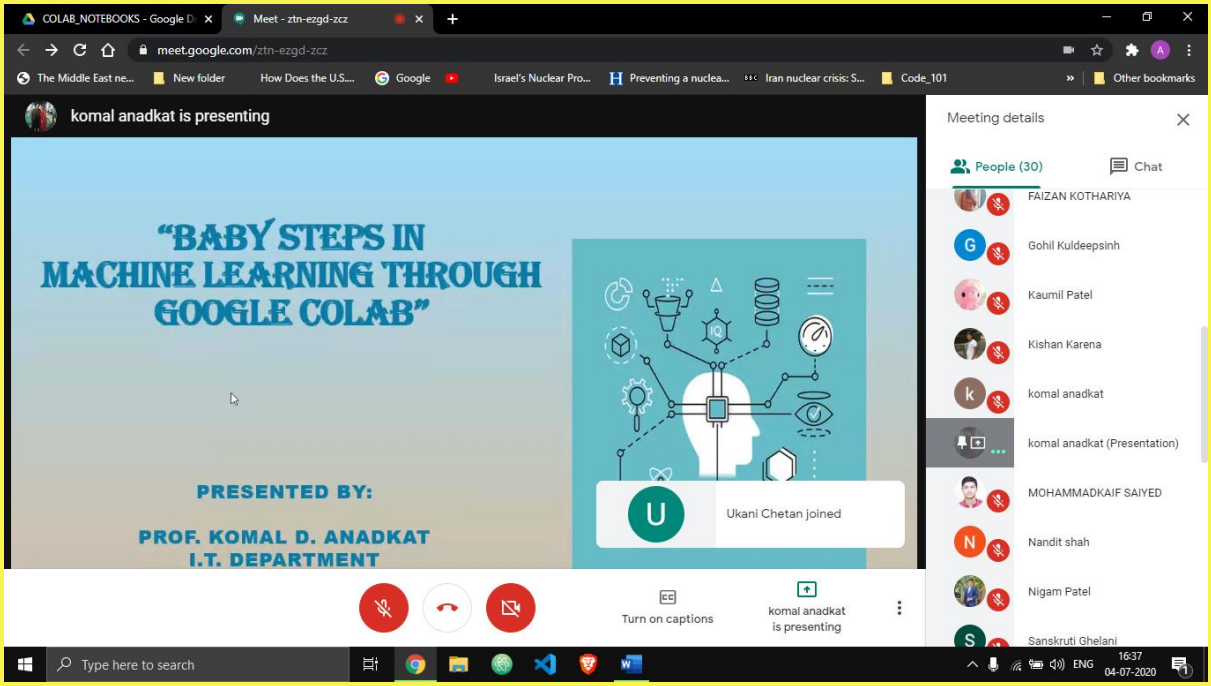
Speaker: Prof. Komal Anadkat (A.P.I.T)

Meeting on: Google Meet

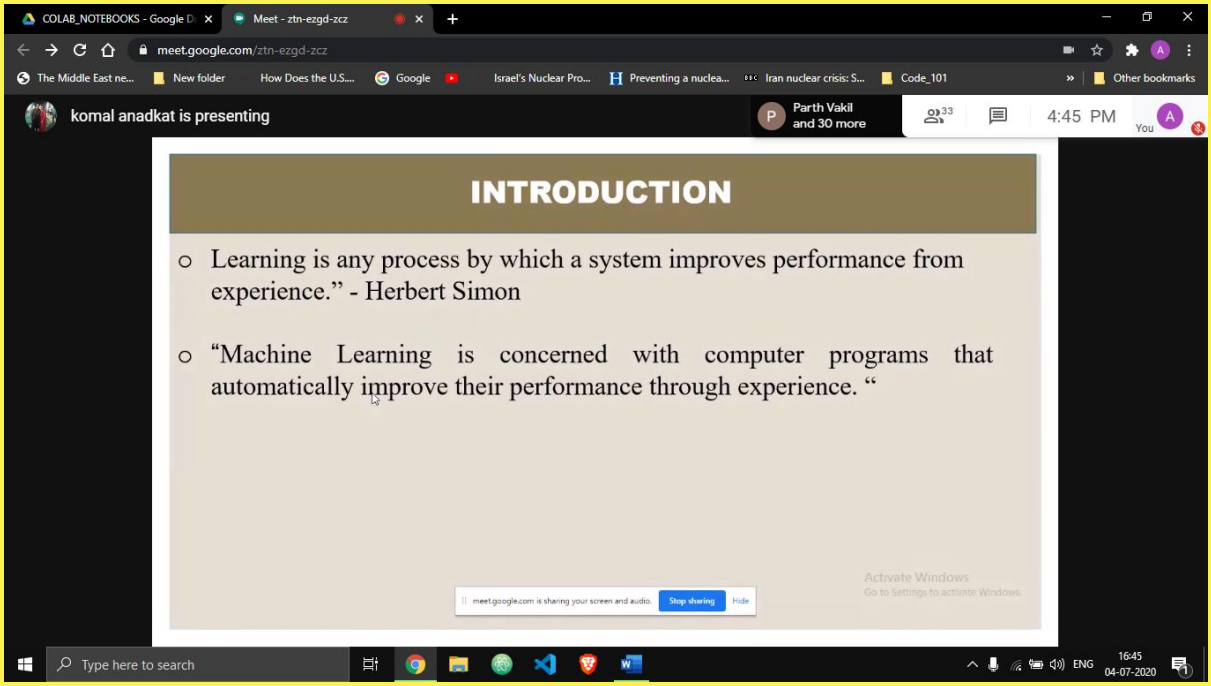


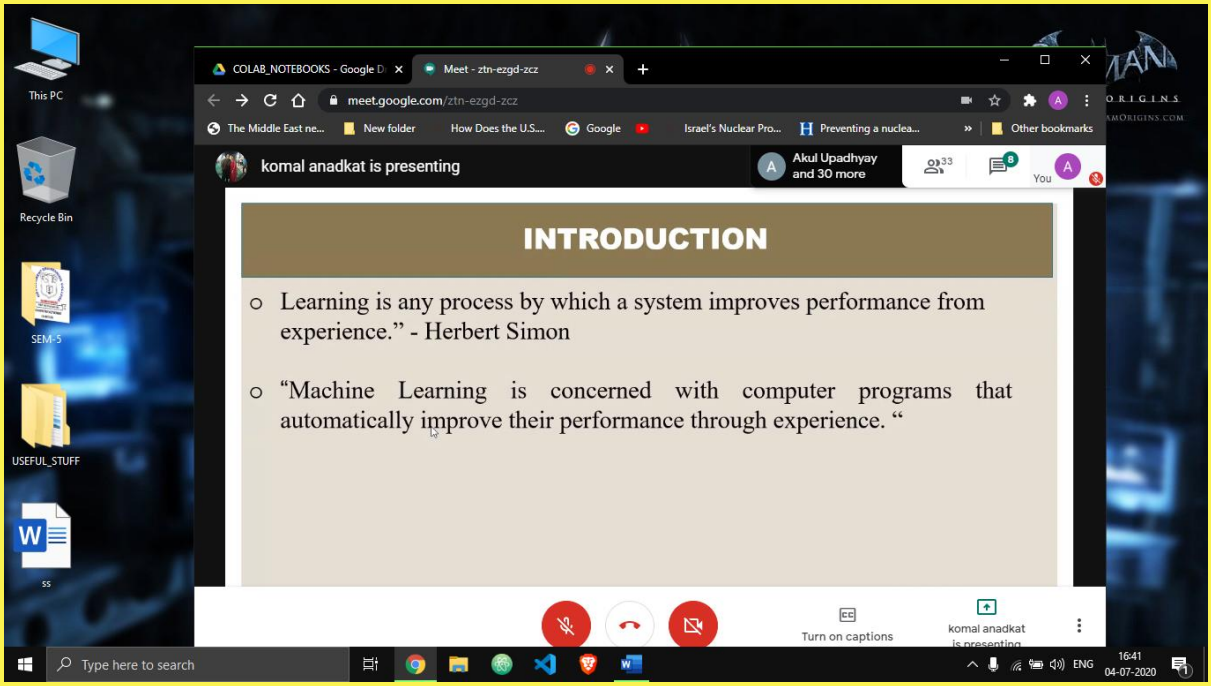


In this technologically advanced 21st century Machine learning has already become a big part of our lives as end users we are using this technology every single day . From our YouTube video recommendations to the classic "ok google" commands we are surrounded with ML and its products so it's time we get started with ML ourselves.



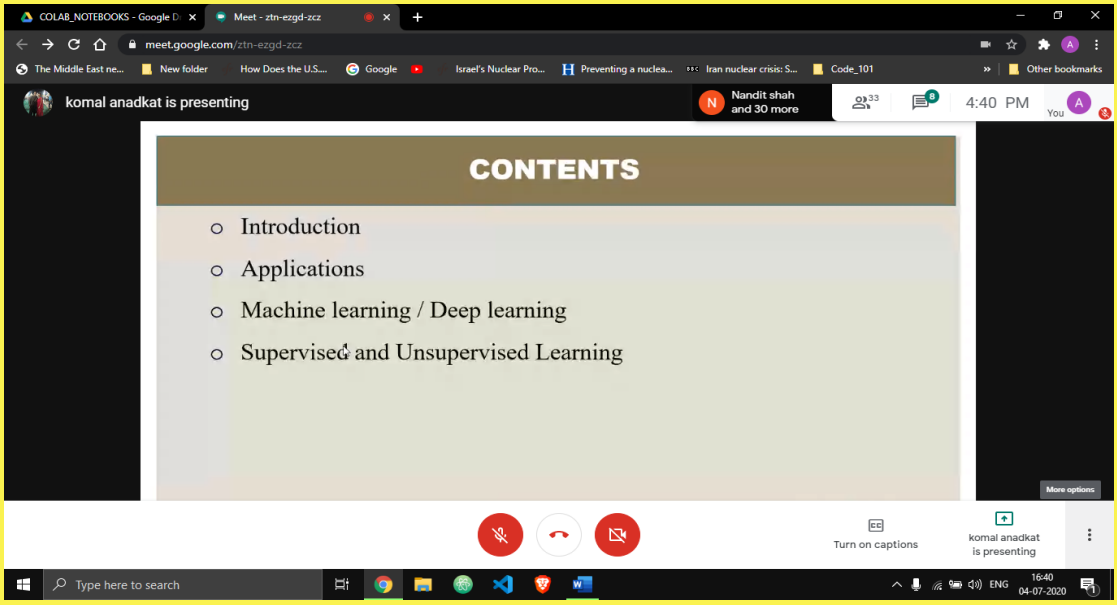
The meeting was scheduled to start at 4:30 however due to the interest and the punctuality of all participants the meeting commenced around 10 mins early. What followed was a quick introduction of the lecturer and a few ice breakers, we were now ready to dive into the world of ML.





A strong foundation is the secret to a steady high rise, similarly a solid base on the basics was needed, so first an introduction to the subject

and the day's goals were covered.



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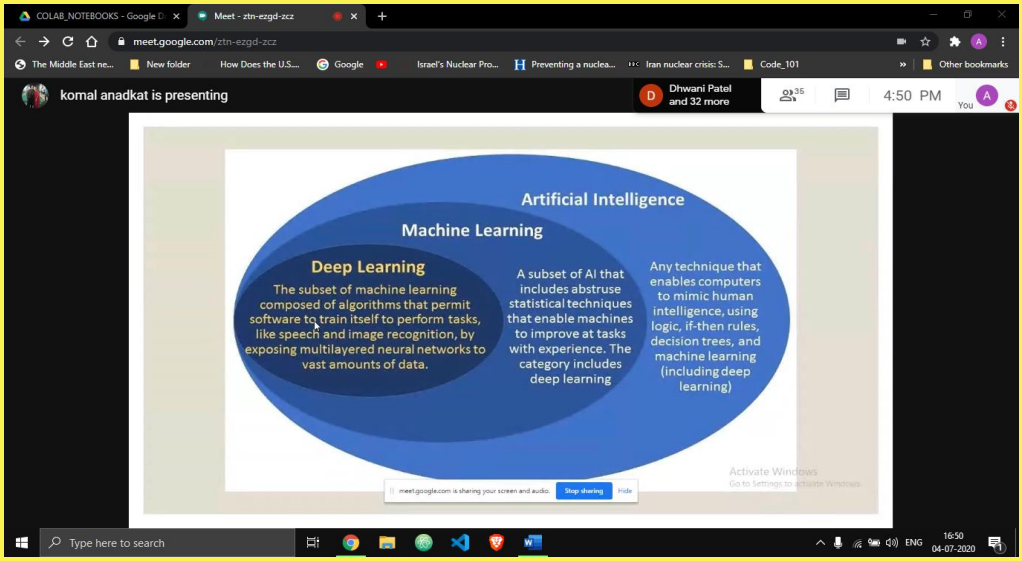
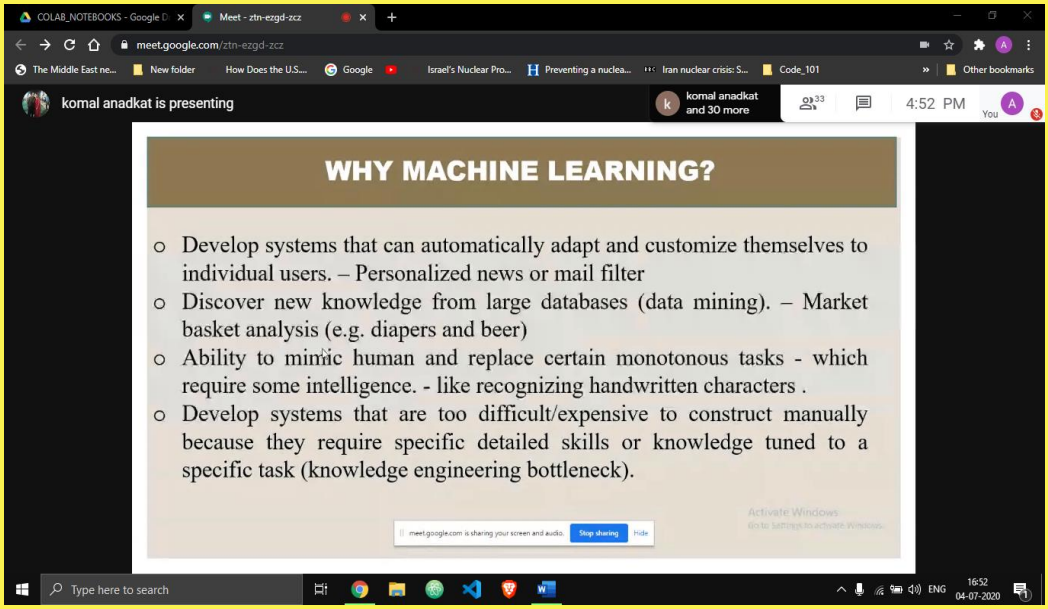
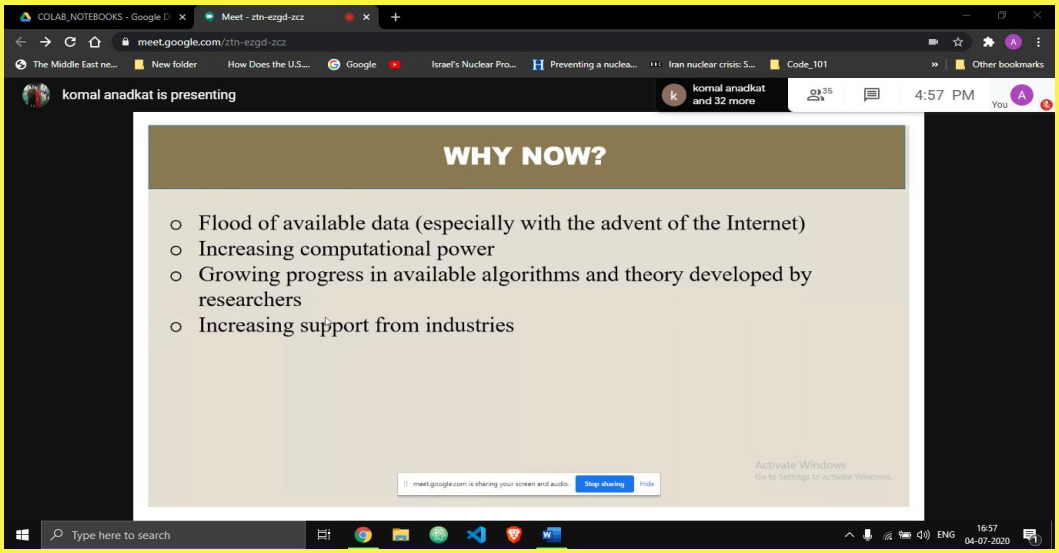
After establishing the basics a quick look on what, why and why now for ML followed.

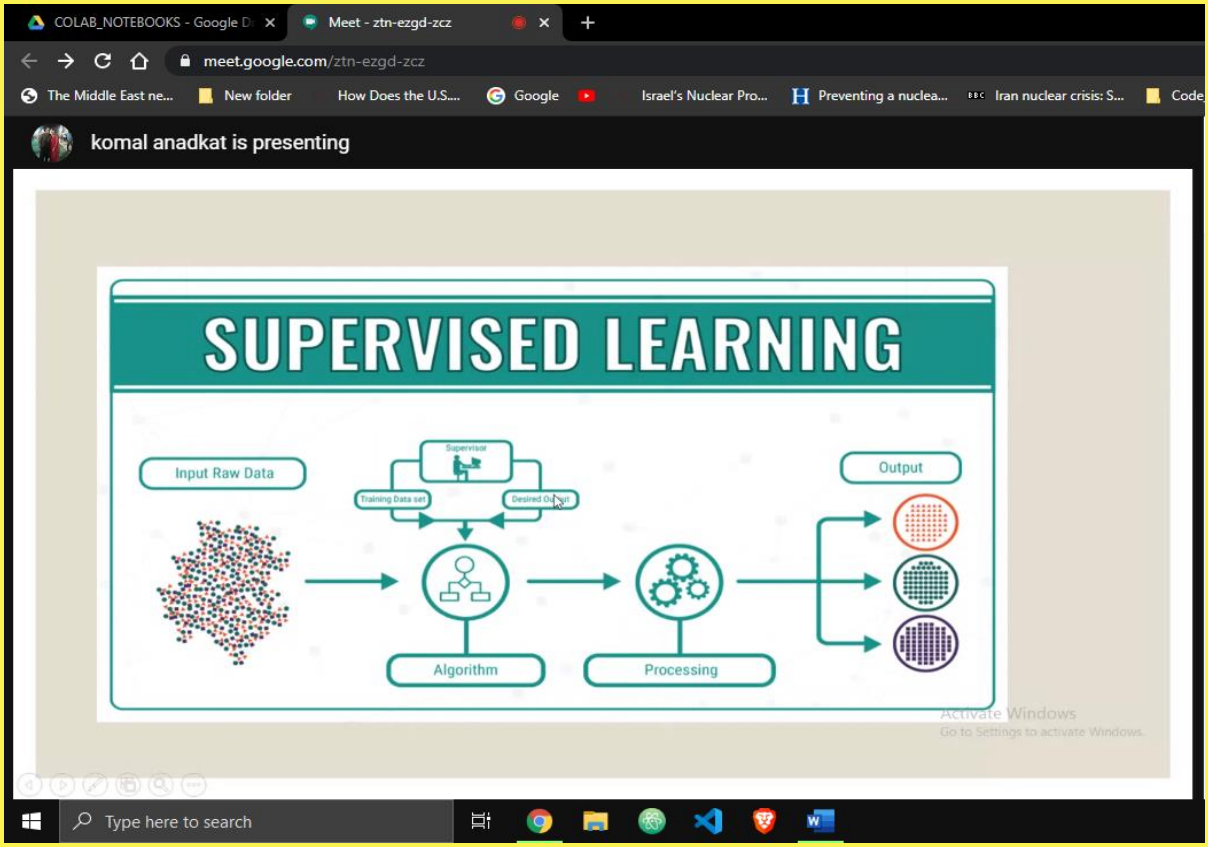






Next a detailed discussion on its many applications took place. Insights on how ML actually works were also shared and some real life examples to make sure the students could relate.

A very important aspect of ML vs Deep Learning was covered (focusing on the various training techniques). Supervised and Unsupervised Learning were covered at length.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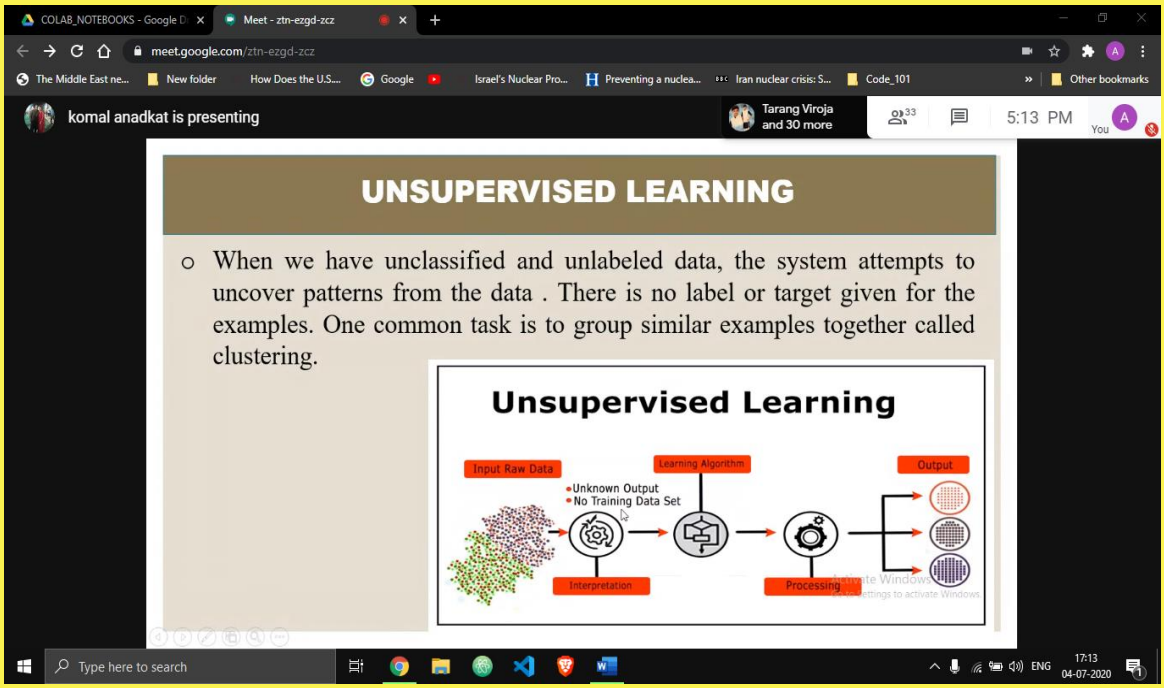
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UNSUPERVISED LEARNING
o When we have unclassified and unlabeled data, the system attempts to uncover patterns from the data . There is no label or target given for the examples. One common task is to group similar examples together called clustering.
Unsupervised Learning
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Learning Algorithm
Output
Unknown Output
No Training Data Set
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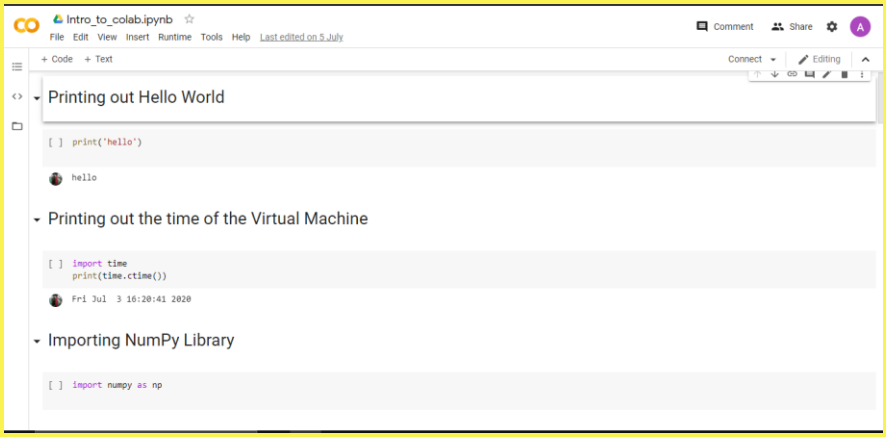
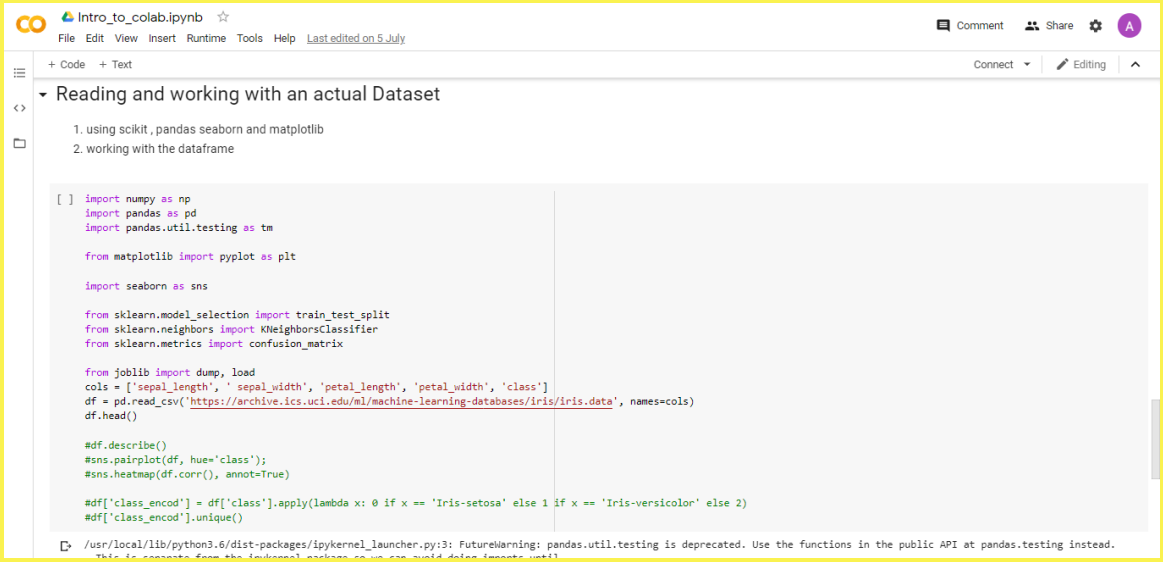
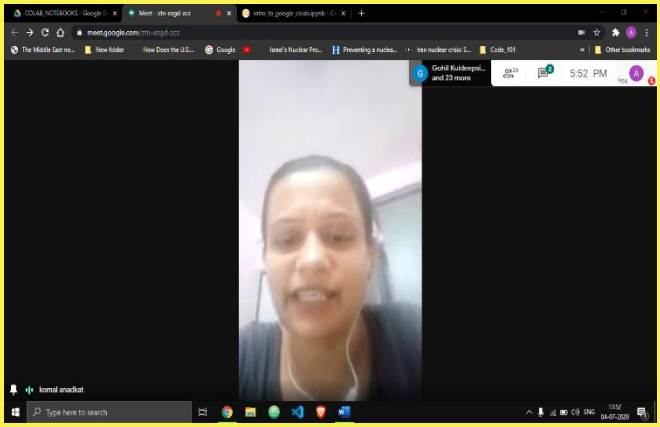
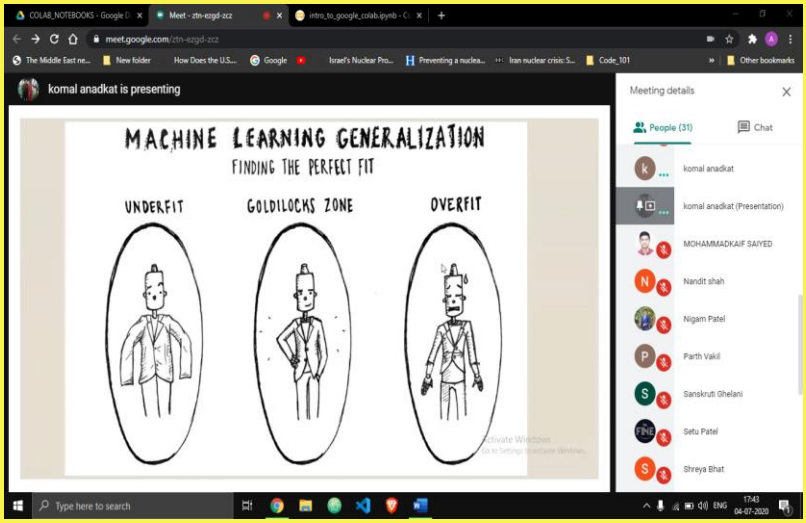
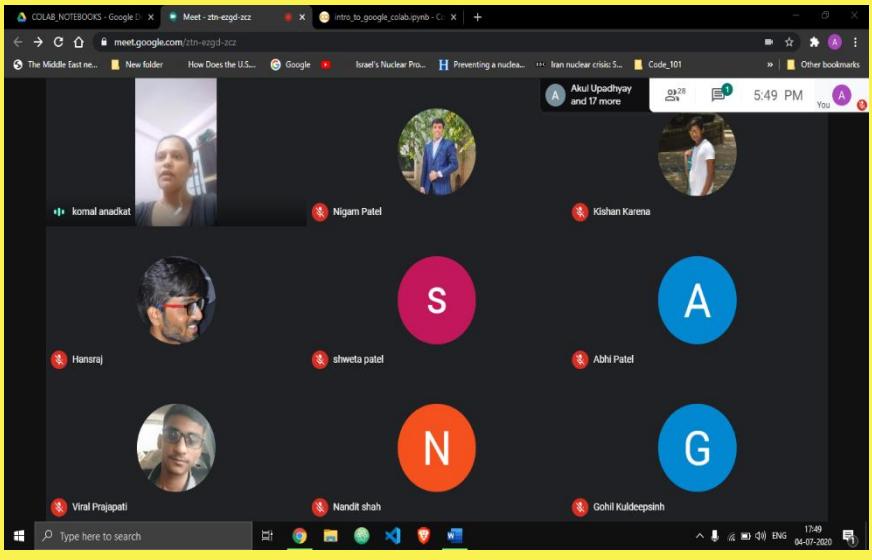
After providing the necessary theoretical introduction it was now time for some hands on practicals !.







After a brief explanation of the various ML techniques and a QnA session it was time to say goodbye, having given students all the tools they need and pointing them in the right direction to get started with ML, it was indeed in many ways "Baby steps into the world of ML".