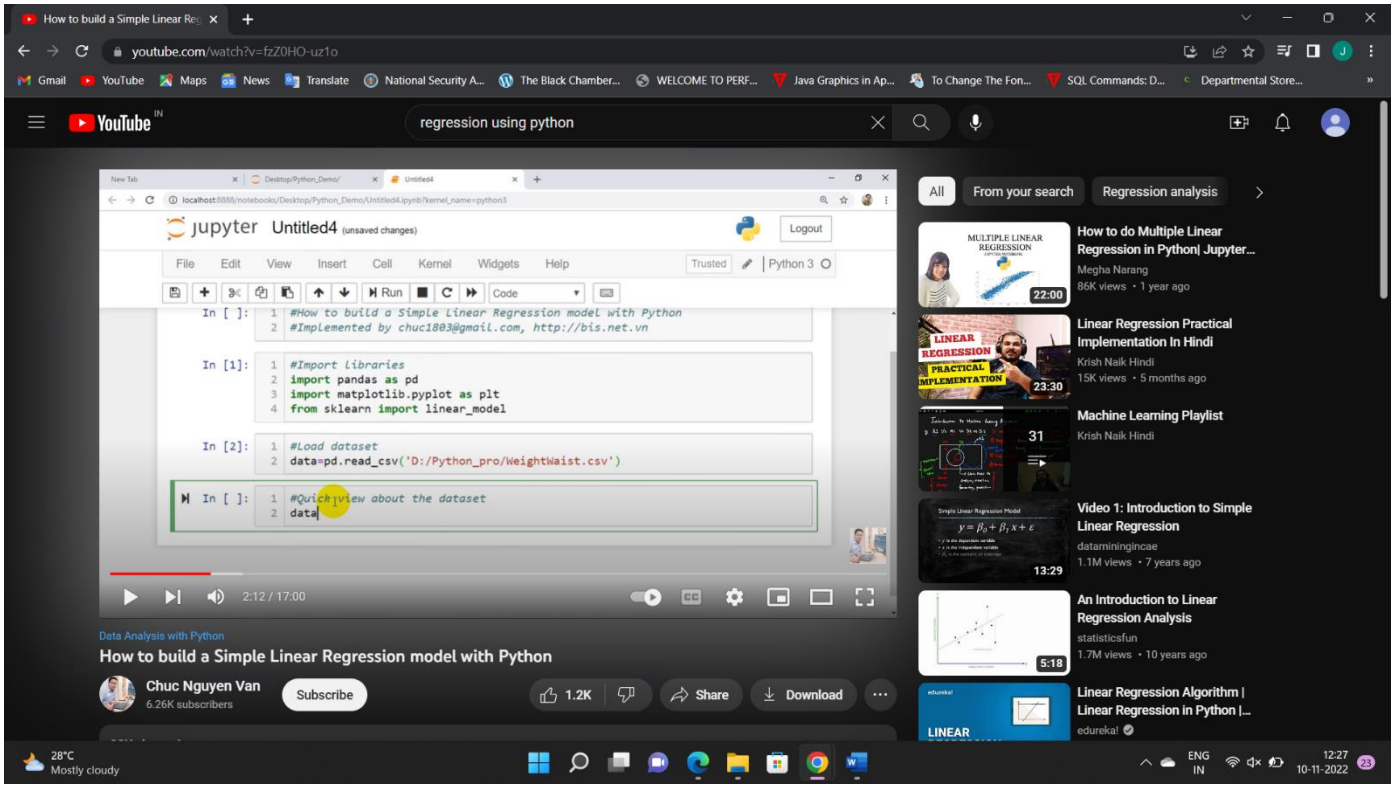
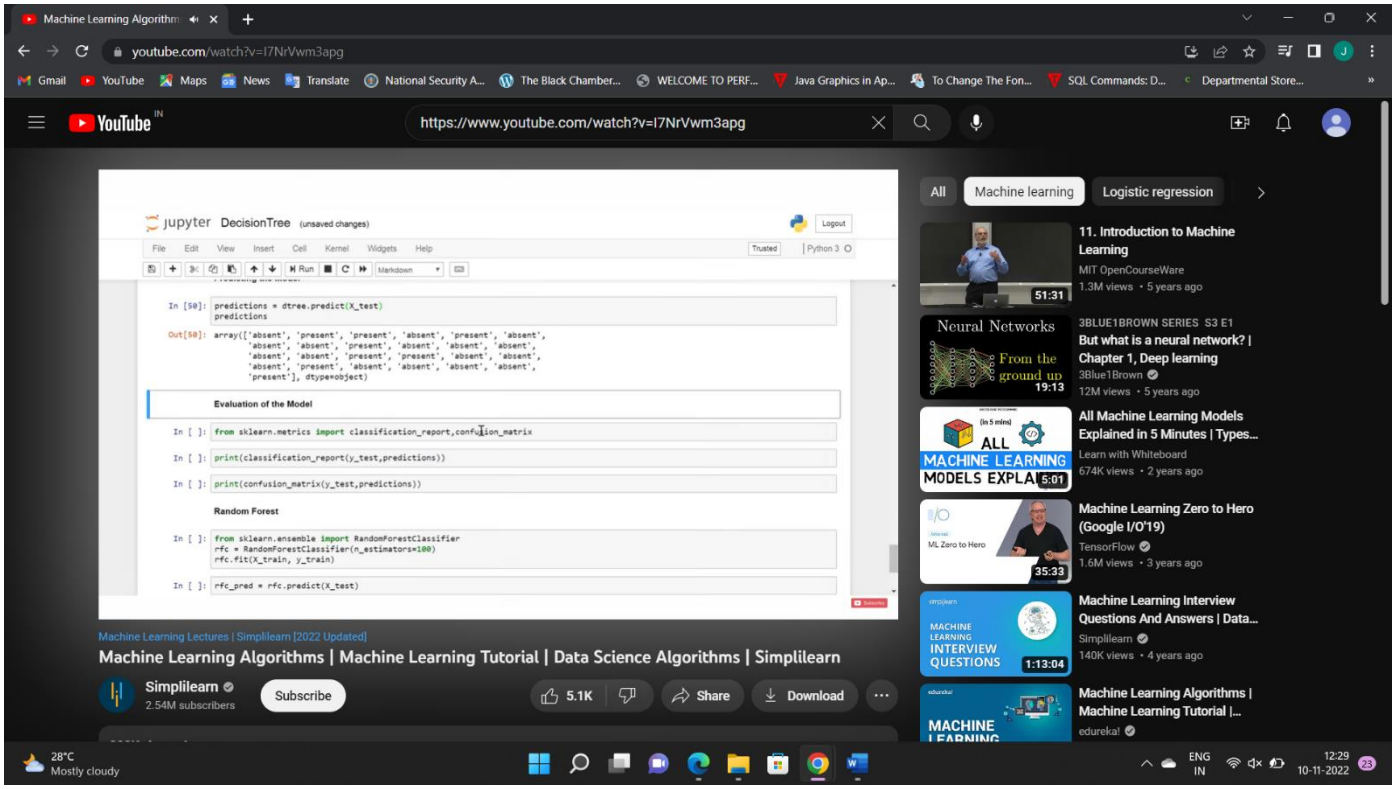
TEAM ID: PNT2022TMID52731

PROJECT NAME: DemandEst - AI powered Food Demand Forecaster

TEAM LEADER

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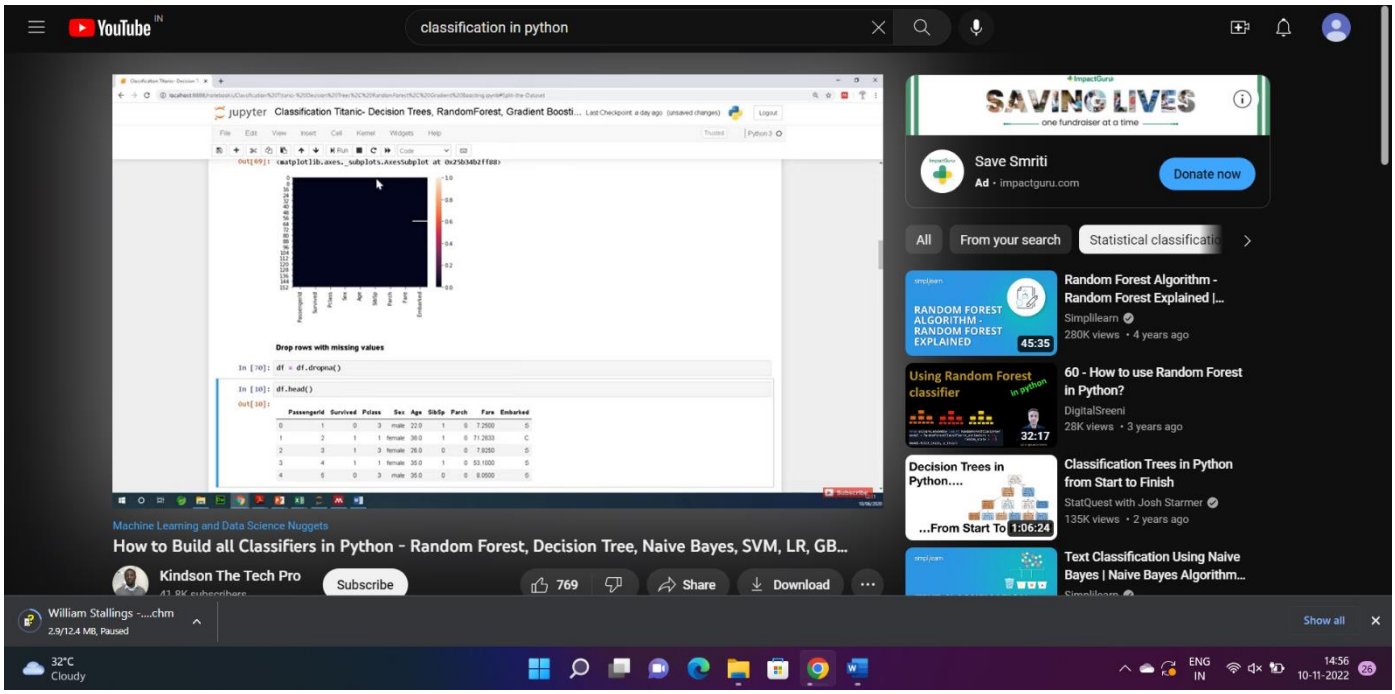
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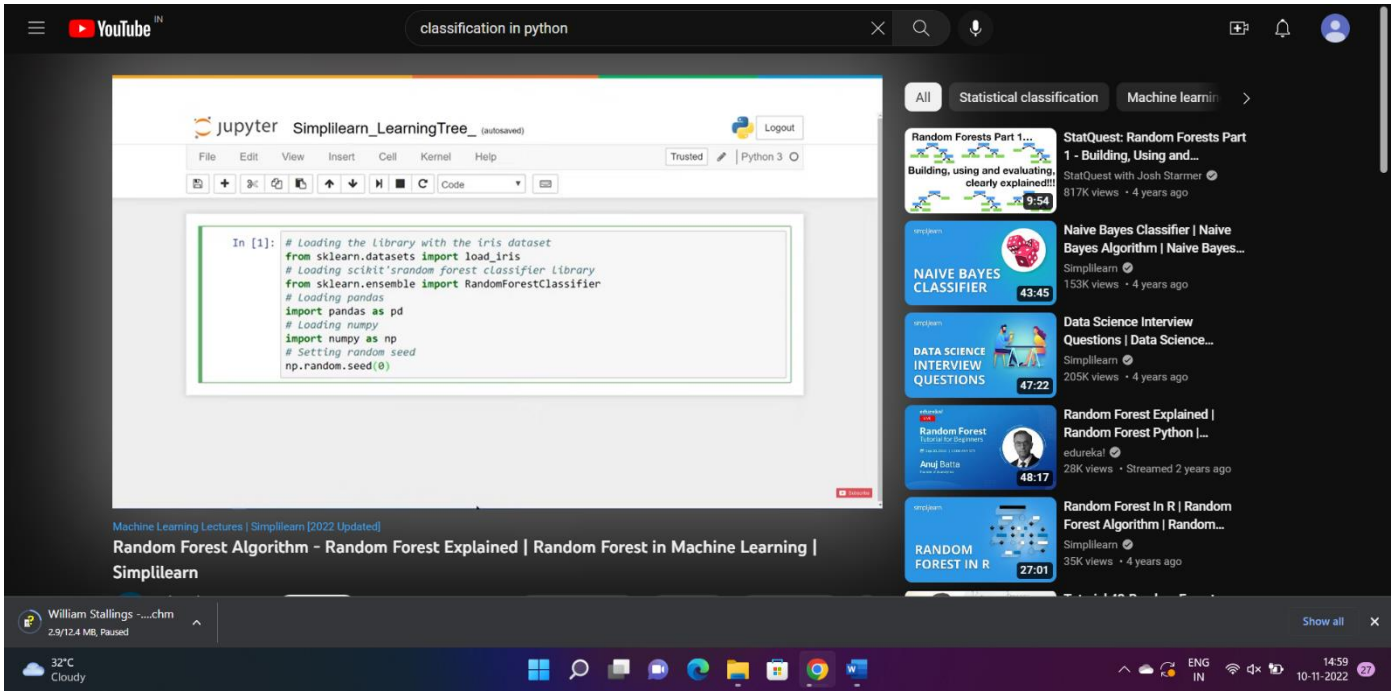

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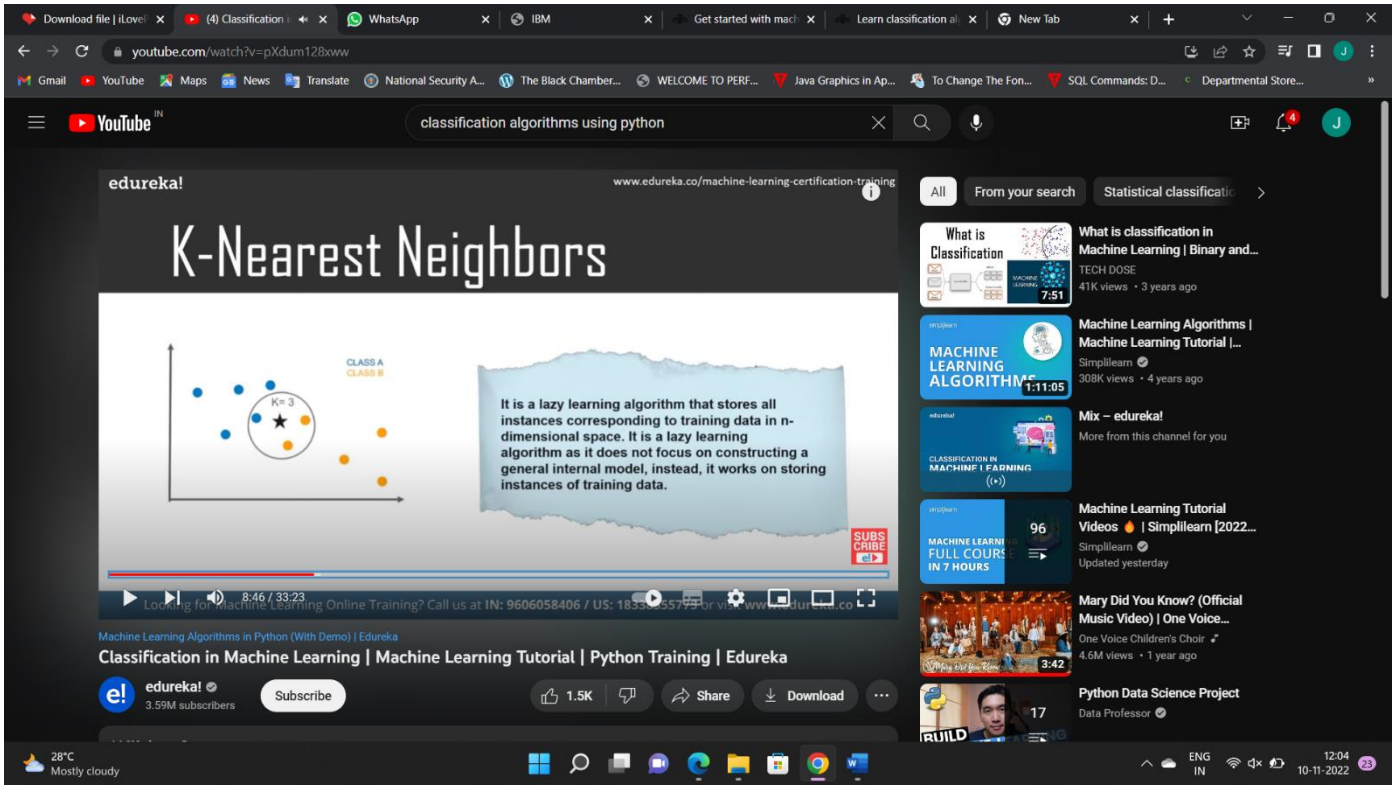

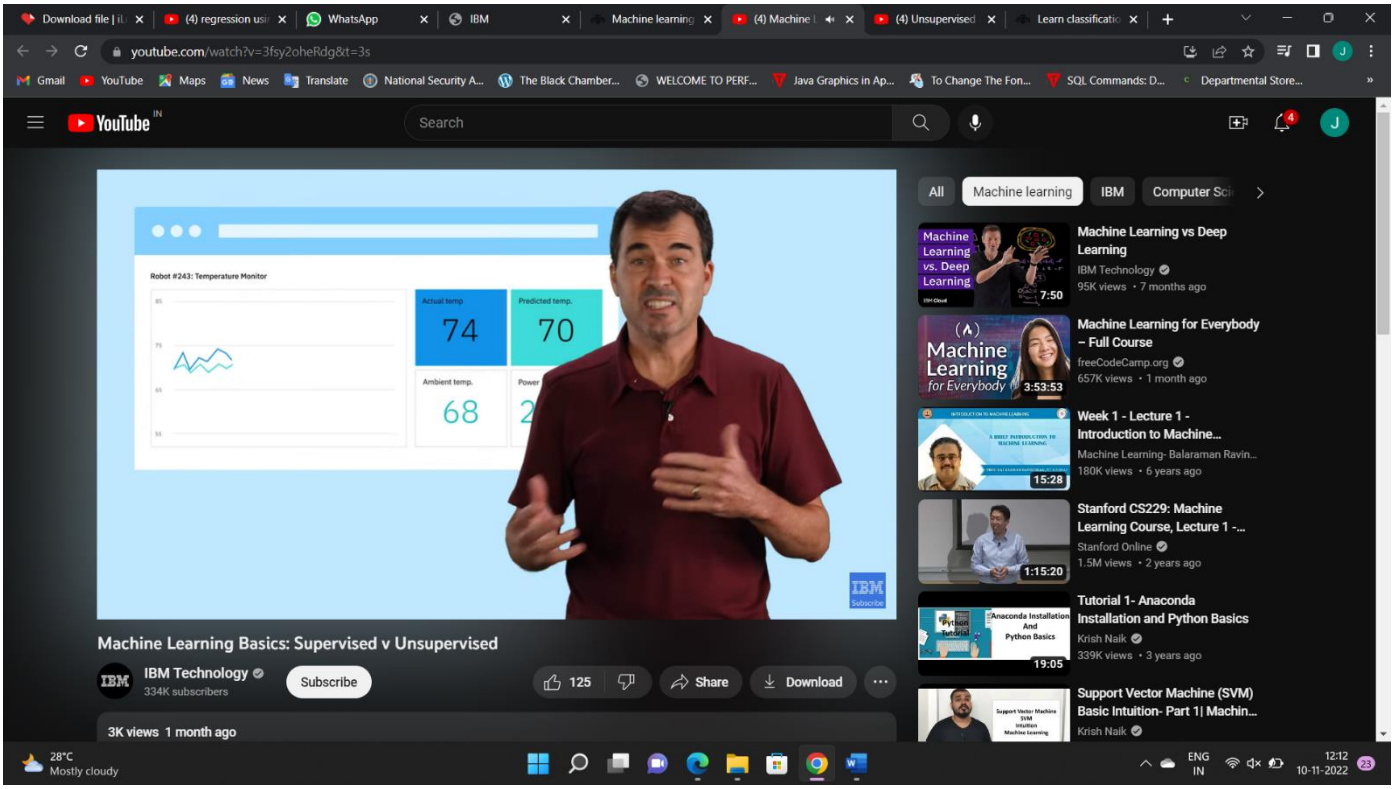
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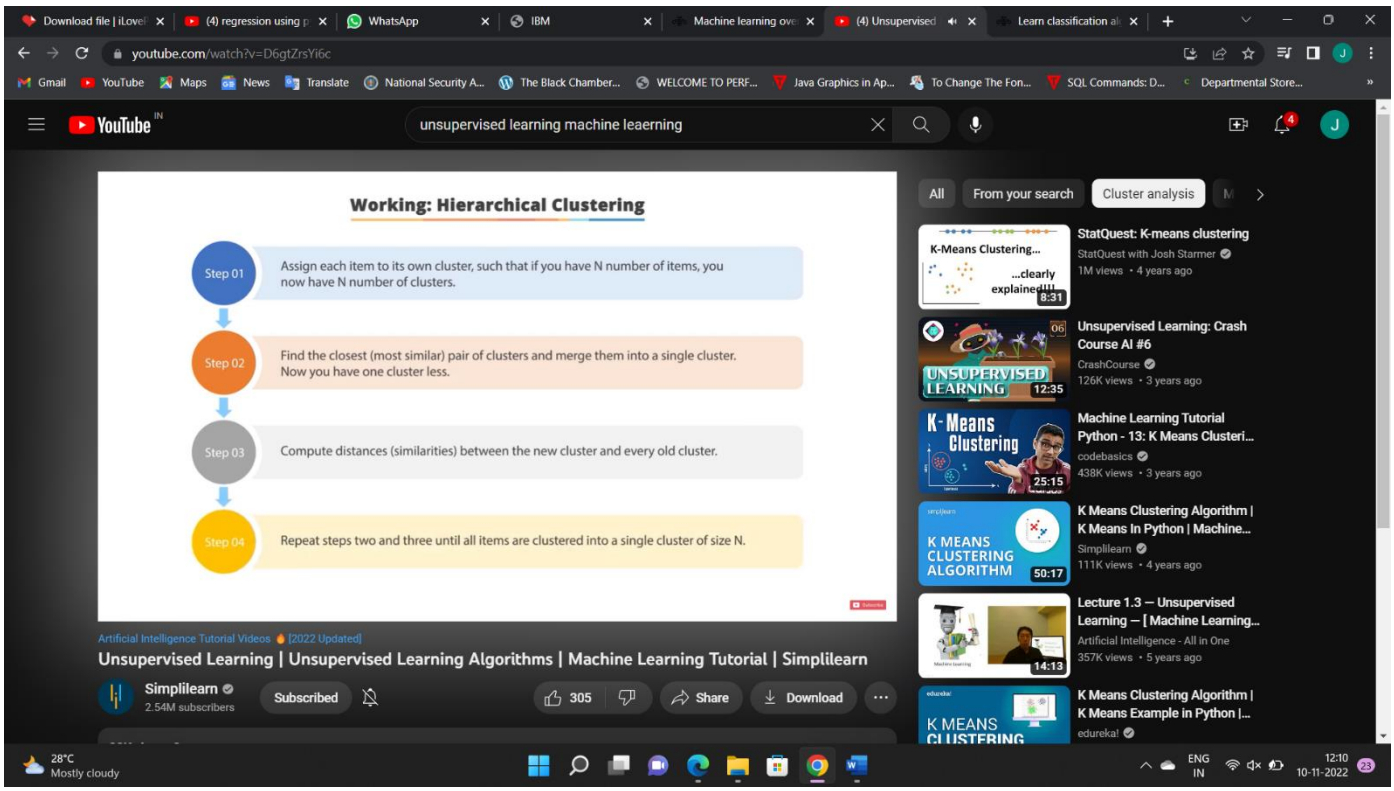
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Working: Hierarchical Clustering
Step 01
Assign each item to its own cluster, such that if you have N number of items, you now have N number of clusters.
Step 02
Find the closest (most similar) pair of clusters and merge them into a single cluster. Now you have one cluster less.
Step 03
Compute distances (similarities) between the new cluster and every old cluster.
Step 04
Repeat steps two and three until all items are clustered into a single cluster of size N.
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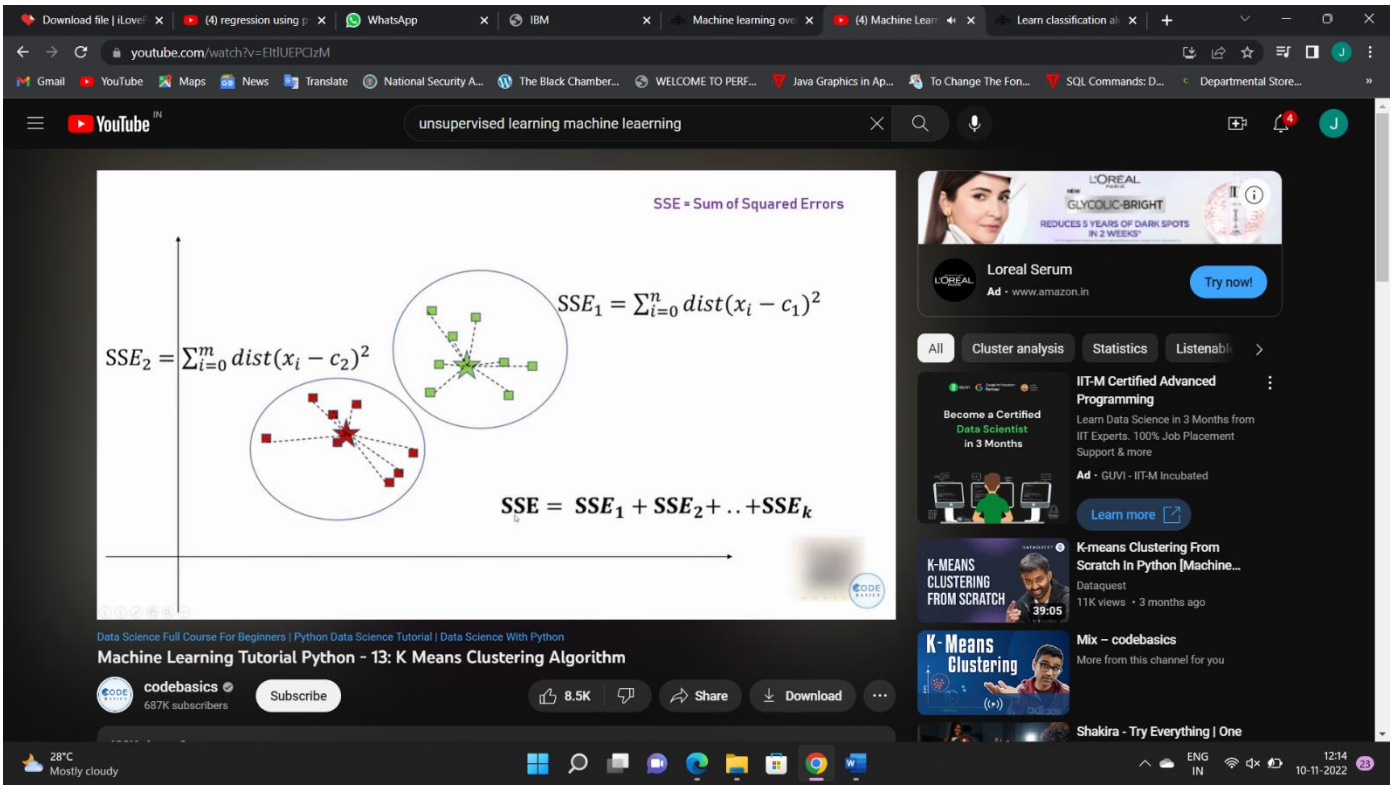
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SSE = Sum of Squared Errors
$SSE_1 = \sum_{i=0}^{n} dist(x_i - c_1)^2$
$SSE_2 = \sum_{i=0}^{m} dist(x_i - c_2)^2$
$SSE = SSE_1 + SSE_2 + .. + SSE_k$
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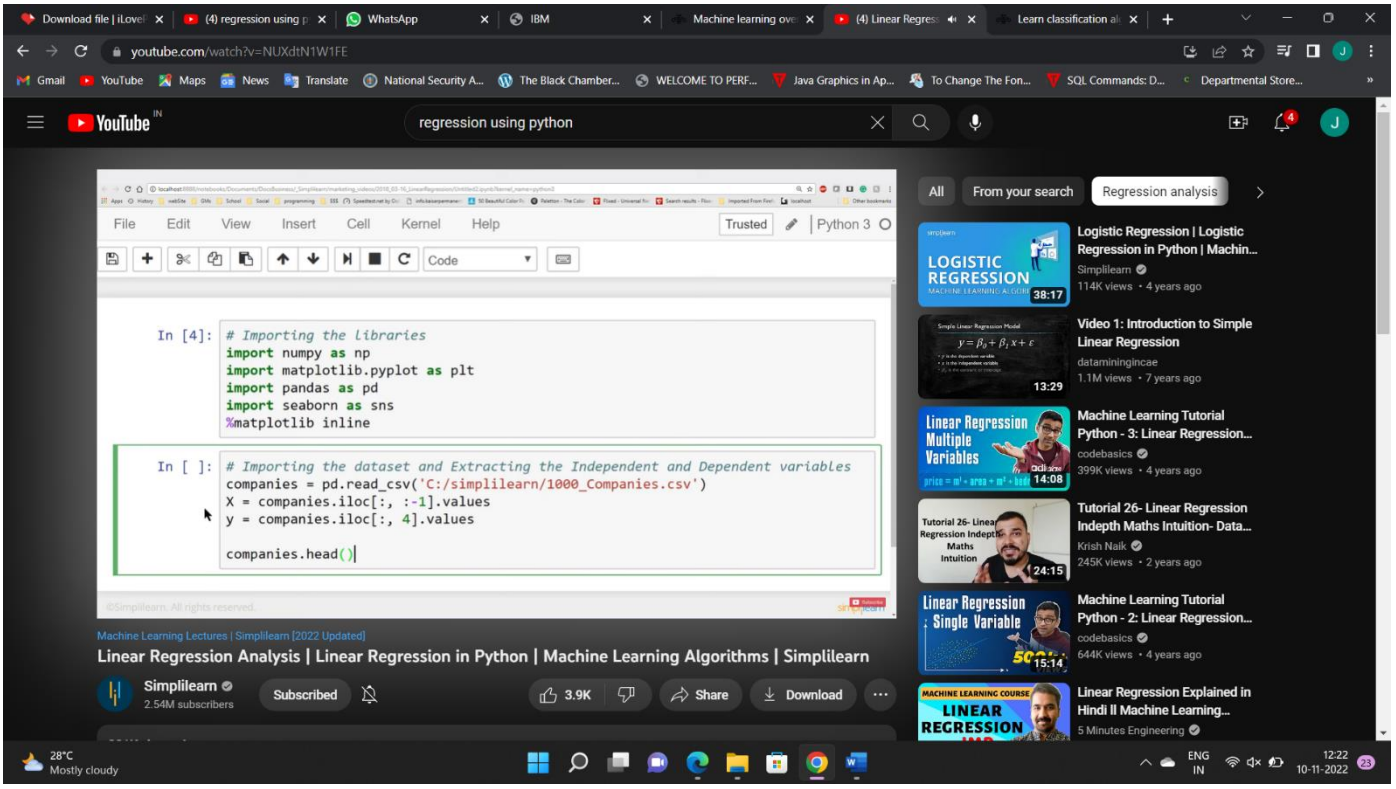
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Python 3
Code
In [4]:
# Importing the libraries
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
import seaborn as sns
%matplotlib inline
In [ ]:
# Importing the dataset and Extracting the Independent and Dependent variables
companies = pd.read_csv('C:/simplilearn/1000_Companies.csv')
X = companies.iloc[:, :-1].values
y = companies.iloc[:, 4].values
companies.head()
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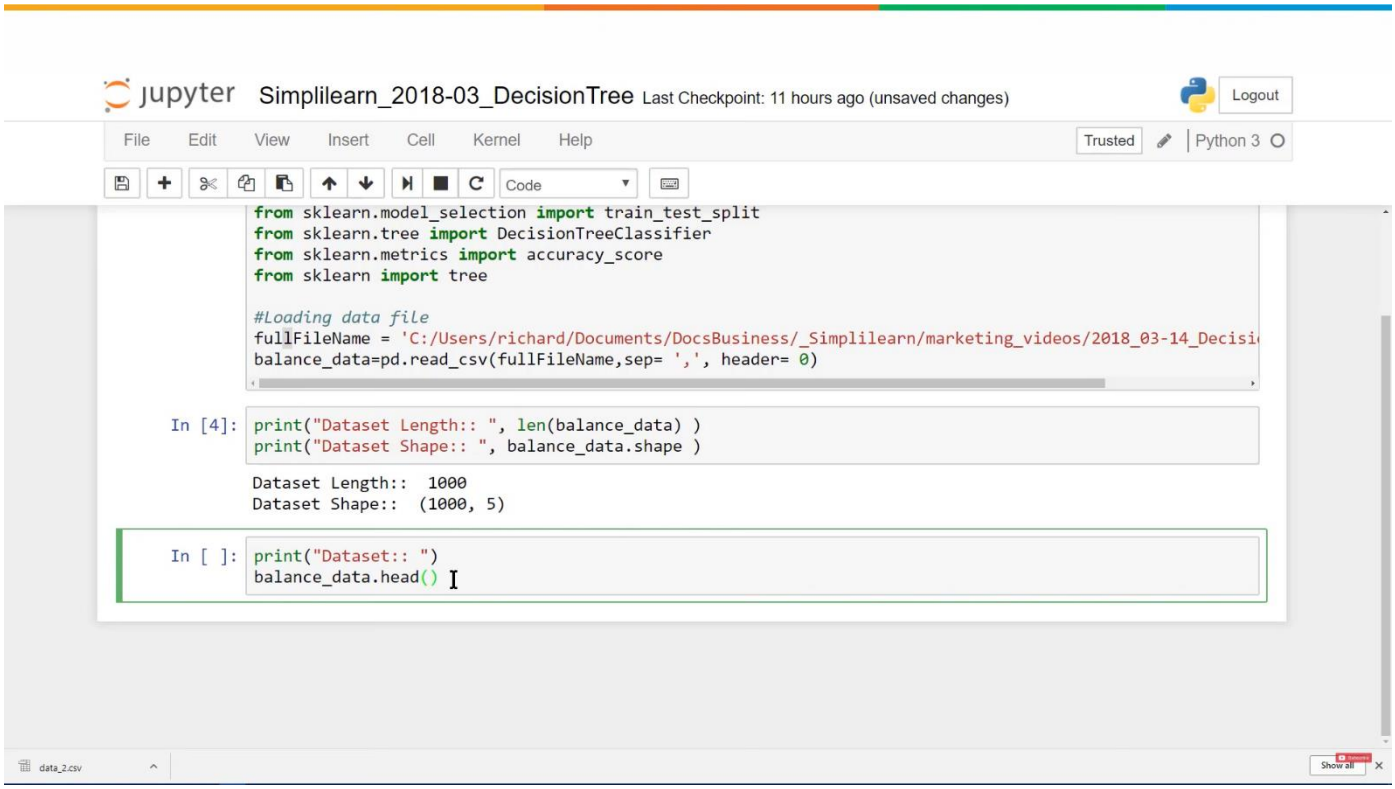

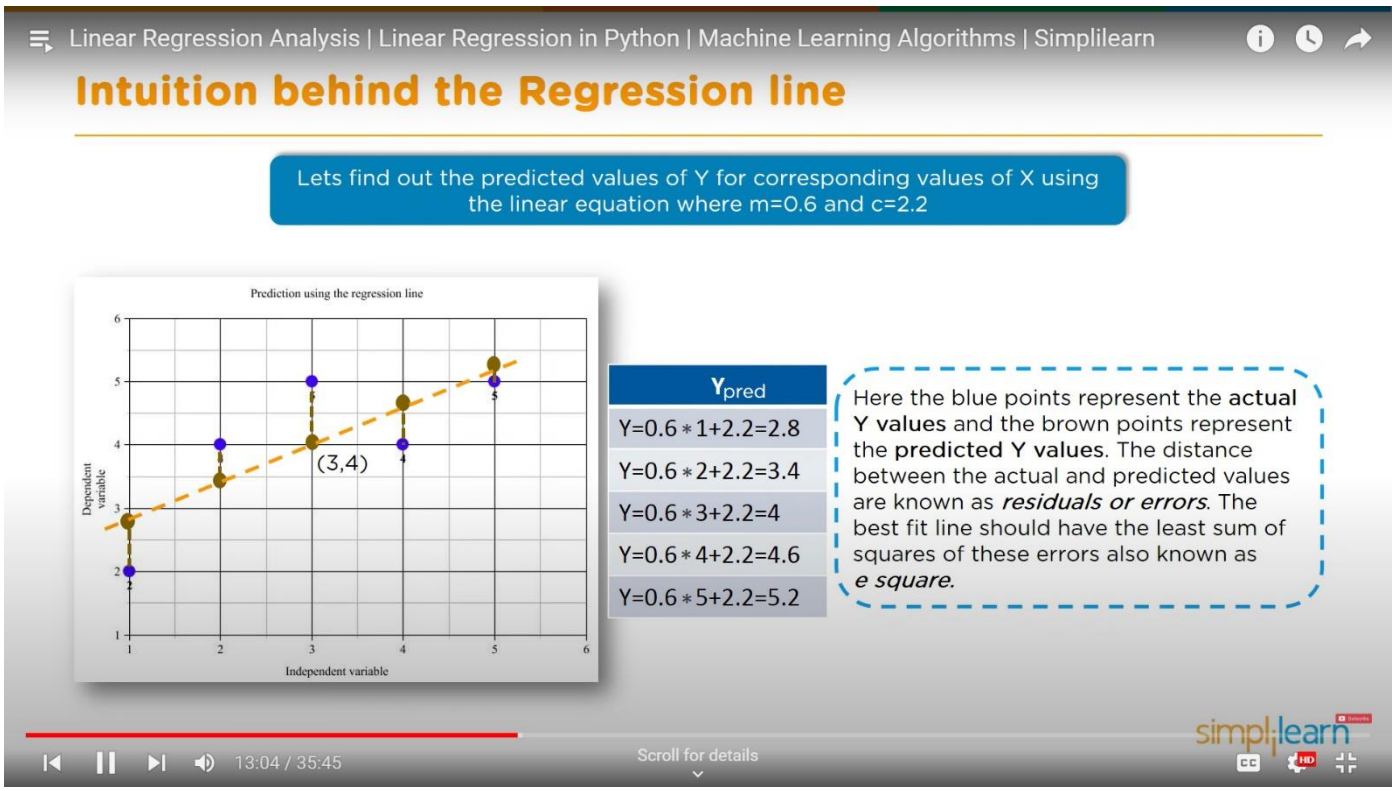

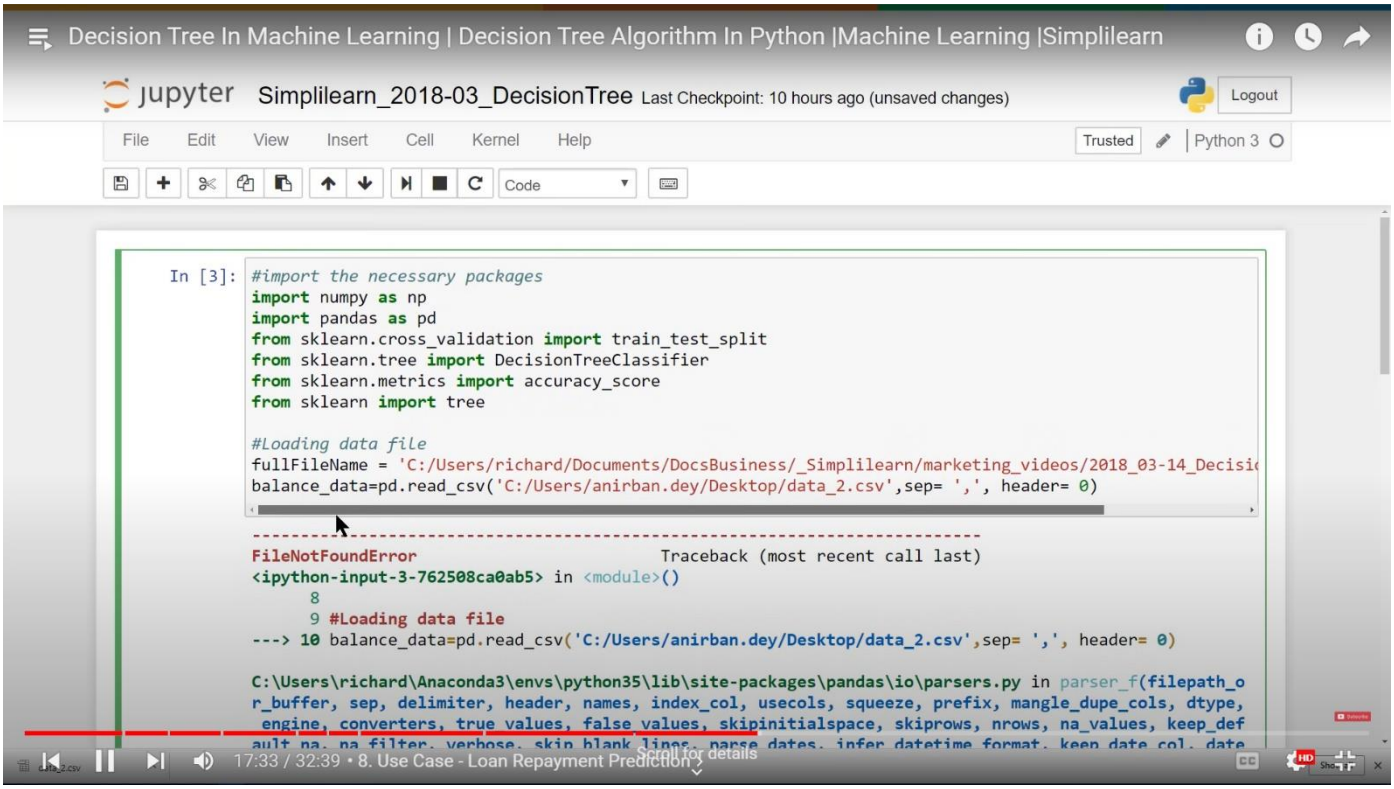
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Code
In [3]:
#import the necessary packages
import numpy as np
import pandas as pd
from sklearn.cross_validation import train_test_split
from sklearn.tree import DecisionTreeClassifier
from sklearn.metrics import accuracy_score
from sklearn import tree
#Loading data file
fullFileName = 'C:/Users/richard/Documents/DocsBusiness/_Simplilearn/marketing_videos/2018_03-14_Decisi
balance_data=pd.read_csv('C:/Users/anirban.dey/Desktop/data_2.csv',sep= ',', header= 0)
FileNotFoundError Traceback (most recent call last)
<ipython-input-3-762508ca0ab5> in <module>()
8
9 #Loading data file
---> 10 balance_data=pd.read_csv('C:/Users/anirban.dey/Desktop/data_2.csv',sep= ',', header= 0)
C:\Users\richard\Anaconda3\envs\python35\lib\site-packages\pandas\io\parsers.py in parser_f(filepath_o
r_buffer, sep, delimiter, header, names, index_col, usecols, squeeze, prefix, mangle_dupe_cols, dtype,
engine, converters, true_values, false_values, skipinitialspace, skiprows, nrows, na_values, keep_def
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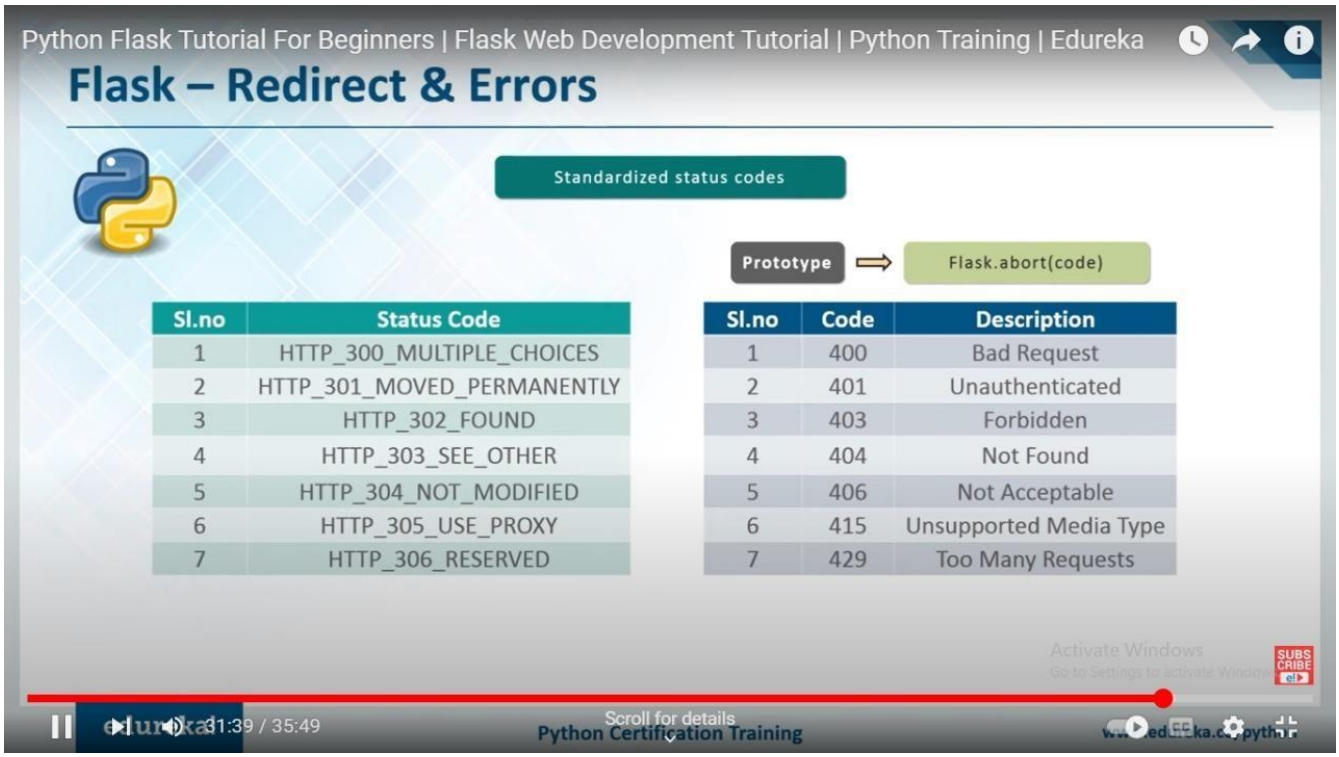
17:33 / 32:39 • 8. Use Case - Loan Repayment Prediction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Flask.abort(code)
Sl.no Status Code
1 HTTP_300_MULTIPLE_CHOICES
2 HTTP_301_MOVED_PERMANENTLY
3 HTTP_302_FOUND
4 HTTP_303_SEE_OTHER
5 HTTP_304_NOT_MODIFIED
6 HTTP_305_USE_PROXY
7 HTTP_306_RESERVED
Sl.no Code Description
1 400 Bad Request
2 401 Unauthenticated
3 403 Forbidden
4 404 Not Found
5 406 Not Acceptable
6 415 Unsupported Media Type
7 429 Too Many Requests
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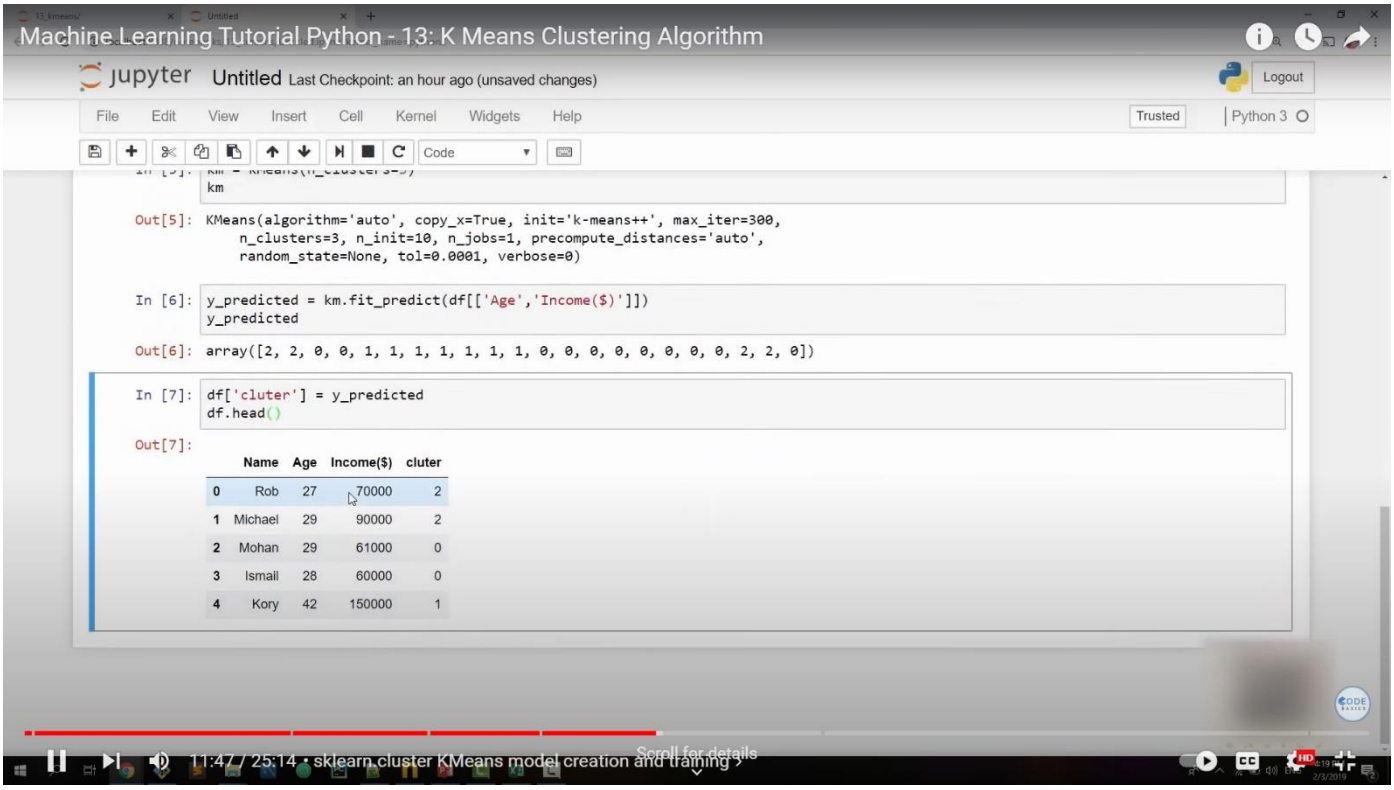

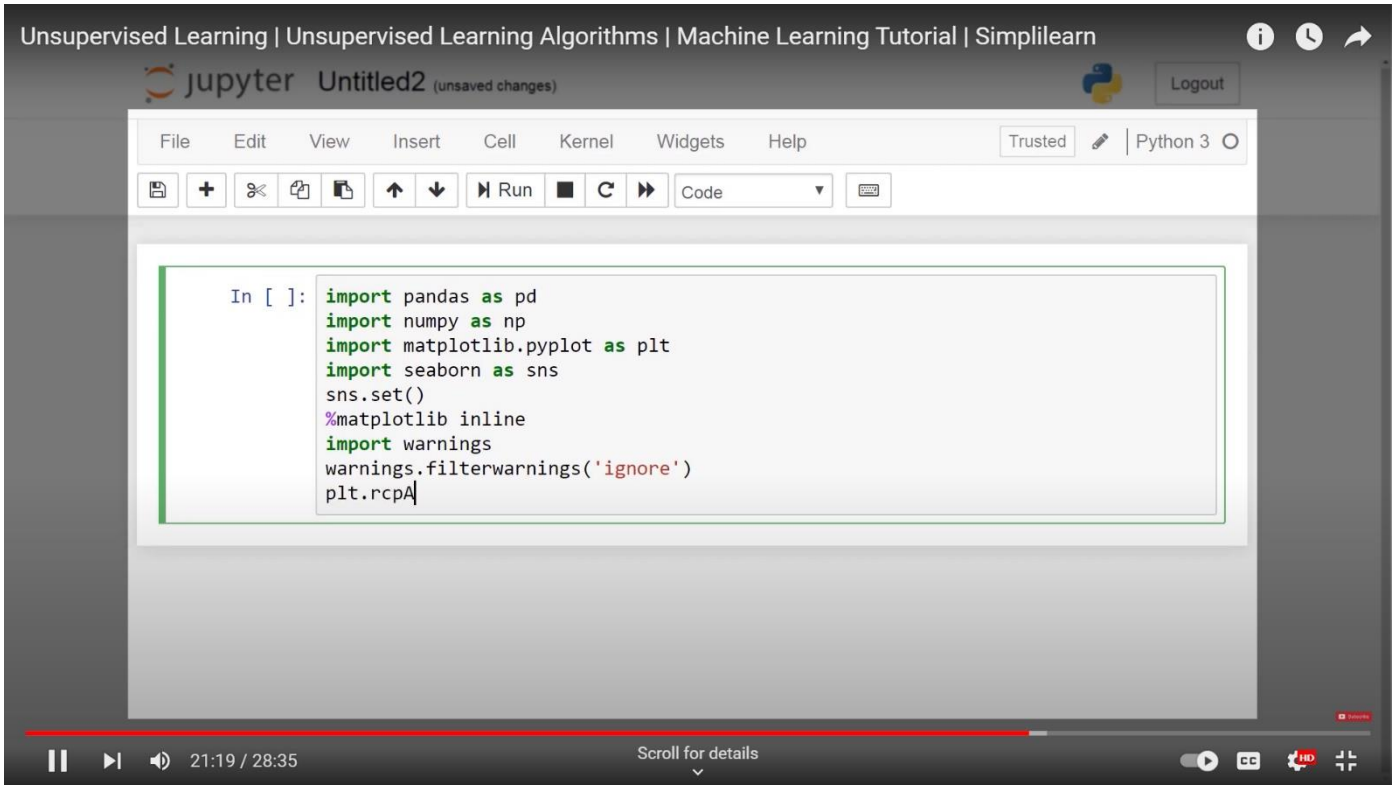

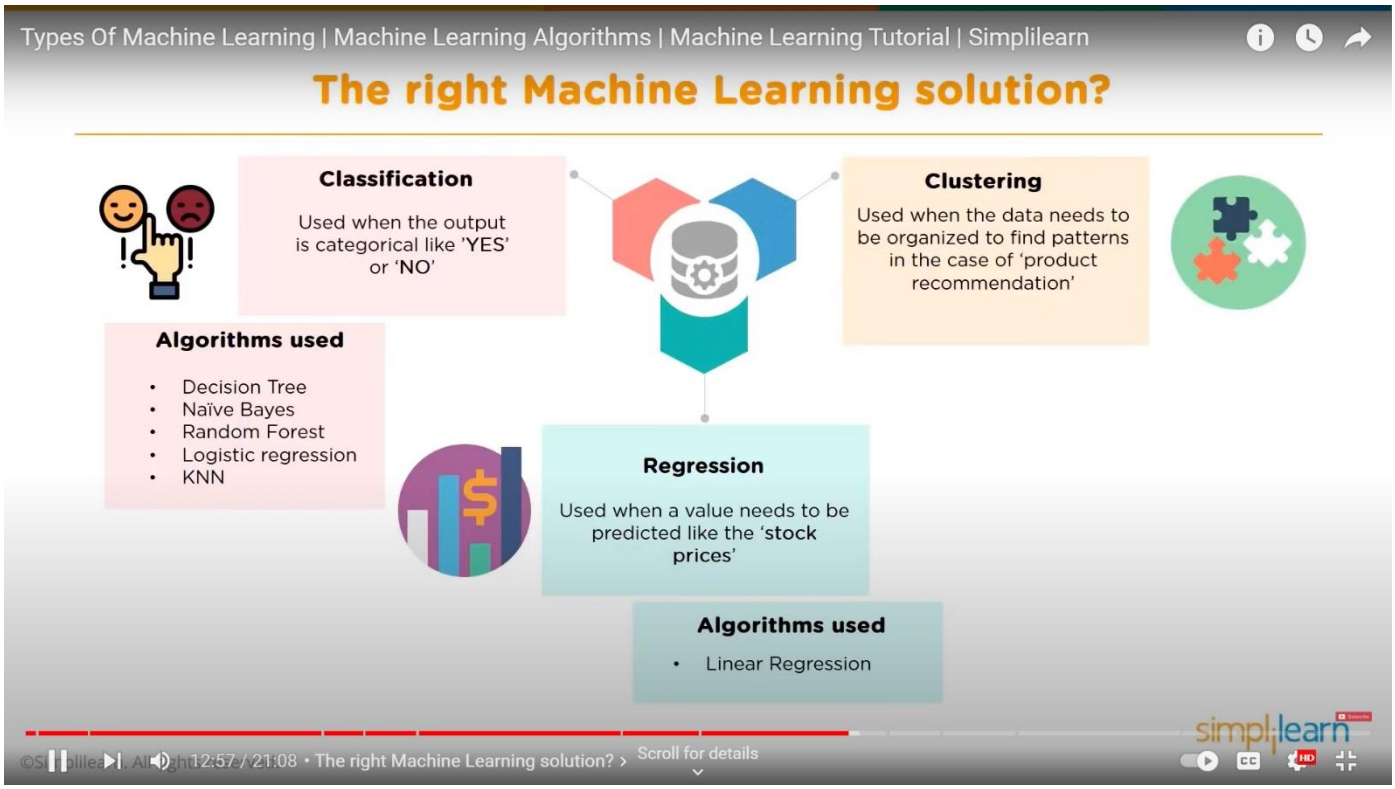
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Classification
Used when the output is categorical like 'YES' or 'NO'
Clustering
Used when the data needs to be organized to find patterns in the case of 'product recommendation'
Algorithms used
Decision Tree
Naïve Bayes
Random Forest
Logistic regression
KNN
Regression
Used when a value needs to be predicted like the 'stock prices'
Algorithms used
Linear Regression
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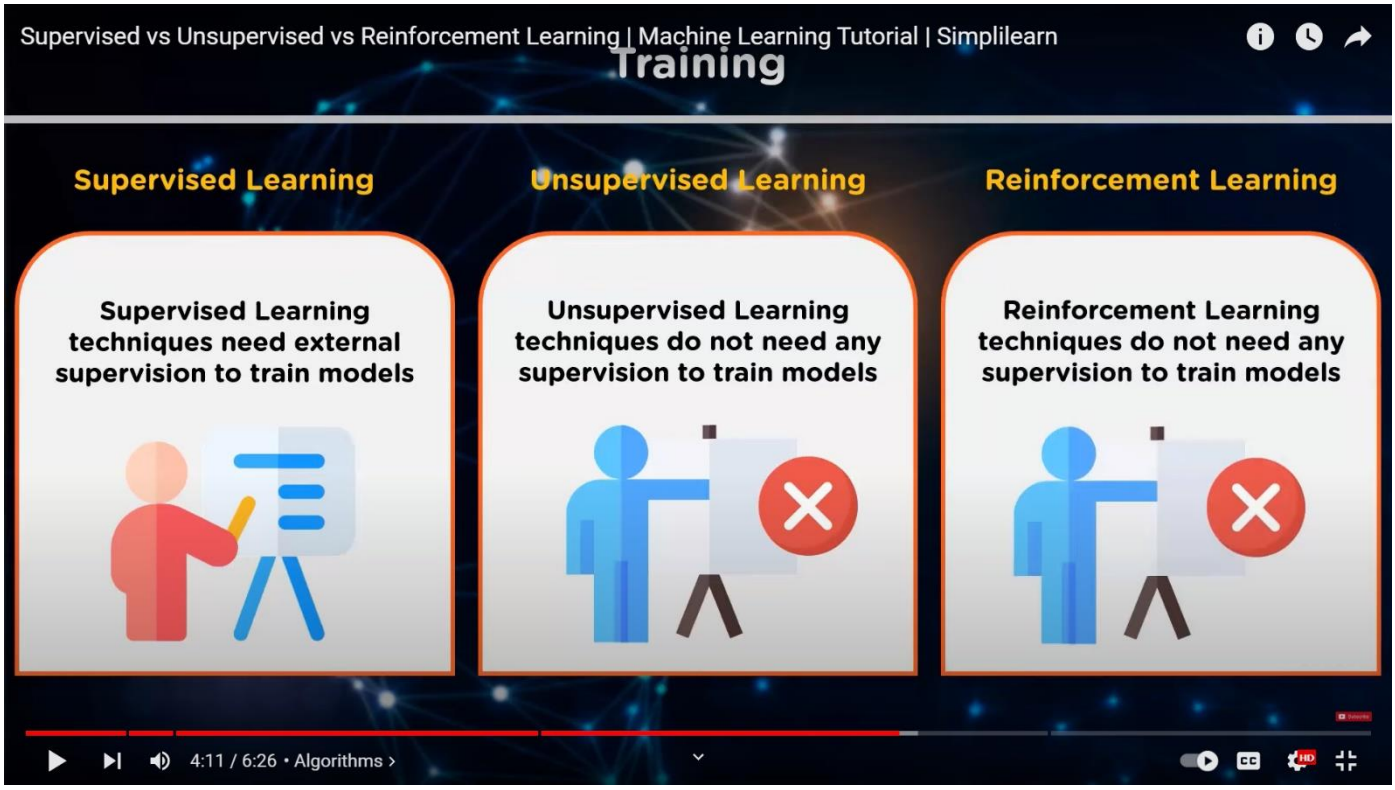
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Supervised Learning
Unsupervised Learning
Reinforcement Learning
Supervised Learning techniques need external supervision to train models
Unsupervised Learning techniques do not need any supervision to train models
Reinforcement Learning techniques do not need any supervision to train models
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