Asynchronous activity

Course Outcome :

Machine Learning with Python Course in Linkedin is one of the perfect course for beginners to get started with Machine Learning using Python.

This course helped me in understanding the different terms of Machine learning and Python concepts. It covers the End-to-End concepts from Data Munging, Data Visualisation to building and evaluating the model. I could relate this with real-life scenarios and understand it in a better way.

My Learning Experience :

Everyone will have their way of studying and learning things. I would like to share a few points of my learning experience which helped me learn faster and efficiently.

1.Time management - Don't take it until the last day. Divide the sections, Make a daily plan and start it from Day 1. Don't spend too much time on one task if you face difficulty in understanding. Research on the internet and discuss it with your peers.

2.Practice - Whatever materials we read and courses we complete. In the end, you should do hands-on practice on what you learned. You can practice while studying or at the end. I took a basic beginner project in Machine learning and used all this learning in implementing my first Machine learning. Feel free to look at my code in the git link below and provide your feedback.

https://github.com/Karthik1693/Self_Learning_Project/tree/master/Iris-KMeans%20Cluster

I took a simple IRIS Dataset and implemented it using K-Means Clustering Algorithm.

Note: I used Tableau here for Data visualization. This way, I could learn the basics of how to install and use Tableau.

3.Taking Notes - This is 6 hours long video course; we should not just watching it like a movie. We have to note down important key points. Also, keep in mind that don't write everything from the course. Taking notes is an important skill, and it helps us to revisit this quickly.

Below is my notes on the Data munging concept; it would cover all the critical points of one hour long in 1 page. This note helps me to go through the ideas again. In the same way, I have notes for all nine modules. This might look messy, but it serves my purpose.

Python Learning

* Data Munging Basics

→ Filters and selects data
- using pandas and numpy
  ↓
  Dataframe, Series
- Retrieve data

→ Treats missing value
- Check what is missing → df.isnull()
- Fill the missing value → df.fillna(0) (fill 0)
  - ↳ df.fillna(0:0.1, 5:1.25) (fill specific values)
  - ↳ df.fillna(method='ffill') (forward fill)
- count missing value.
  df.isnull().sum()

→ Filtering outs missing Value → df.dropna()
↳ df.dropna(how='all') → drop if all missing.

→ Remove duplicates
df.duplicated() → display true for duplicates.
df.drop_duplicates() → Remove duplicates.
df.drop_duplicates(['col_name']) → specific col

→ concatenating data
pd.concat([df1, df2], axis=1)
↳ optional

→ dropping data
pd.Drop([0,2], axis=1)

→ padding data
pd.join(df1, df2.col_name)
pd.append

→ Sort data
df.sort_values(by=[5], ascending=[False])

→ para grouping and aggregating
df.groupby([df.colname])

Make your method of learning and follow it regularly to upskill yourself. Thank you !!