NUMPY AND PANDAS – PROJECT :

1. Load a car csv Data Set:
2. Create new columns for Segment - this is prep for creating a sales trendline by Segment.
3. To Do – If the Average Price is <=30000 , it is Economy.

If the Average Price is > 30000 and <=45000 it is Mid – range

If the Average Price is > 45000 and <=75000, it is Luxury

If the Average Price is > 75000, it is Ultra – Luxury.

Step – 1:

1. Group the Market Segments.

* Economy car segment dataframe cleaning and transposition
* Drop Segment and Avg Price column
* Mid-Range car segment dataframe cleaning and transposition
* Drop Segment and Avg Price column
* Luxury car segment dataframe cleaning and transposition
* Drop Segment and Avg Price column
* Ultra Luxury car segment dataframe cleaning and transposition
* Drop Segment and Avg Price column

Step – 2:

1. Total sales for each brand for 2019 Q1-Q3
2. Total sales for each brand for 2020 Q1-Q3
3. Find the percentage change of sales between 2019 & 2020 sales
4. Drop Quarterly data and Avg Price no longer required.

Step – 3:

1. Bar chart with the biggest gainers and losers for sales volume with proper Interpretation
2. Bar chart Brand with 2019 total sales and 2020 Total Sales to find the winner and losers
3. Find the Economy car sales by line plot
4. Mid-Range car sales volume line plot
5. Luxury car sales volume line plot
6. Ultra Luxury car sales volume line plot

NOTE : codes are to be Legible to Impact with Proper Interpretation, Don’t overlap with unwanted coding that causes poor weightage to the Data evaluation, read the question and answer properly.

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