In [6]: df=pd.read\_csv("C:\\Users\\acer\\Downloads\\CarPrice\_Assignment.csv") df carbody drivewheel enginelocation wheelbase ... enginesize fuelsystem boreratio stroke compressionratio horsepower Out[6]: car\_ID symboling CarName fueltype aspiration doornumber alfa-romero 0 3 std 88.6 ... 2.68 9.0 two convertible rwd front 130 mpfi 3.47 111 giulia alfa-romero 2 3 2.68 9.0 111 1 std two convertible rwd front 88.6 ... 130 mpfi 3.47 stelvio alfa-romero 2 3 hatchback 94.5 ... 152 3.47 9.0 154 gas std rwd front mpfi 2.68 Quadrifoglio 4 audi 100 ls std four sedan fwd front 99.8 ... 109 mpfi 3.19 3.40 10.0 102 gas 99.4 ... 5 8.0 4 audi 100ls std four sedan 136 mpfi 3.40 115 gas 4wd front 3.19 ... ... volvo 145e 201 gas 9.5 200 std four sedan rwd front 109.1 ... 141 mpfi 3.78 3.15 114 (sw) 160 201 202 -1 volvo 144ea turbo four sedan rwd front 109.1 ... 141 mpfi 3.78 3.15 8.7 gas 202 203 volvo 244dl std four sedan rwd front 109.1 ... 173 mpfi 3.58 2.87 8.8 134 gas 3.01 23.0 203 204 four 109.1 ... 145 idi 3.40 106 volvo 246 diesel turbo sedan rwd front 204 205 -1 volvo 264gl turbo four sedan front 109.1 ... 141 mpfi 3.78 3.15 9.5 114 gas rwd 205 rows × 26 columns In [9]: df.shape (205, 26)Out[9]: In [14]: df2=df[["fueltype", "carbody", "fuelsystem"]] fueltype Out[14]: carbody fuelsystem 0 convertible mpfi gas 1 gas convertible mpfi 2 gas hatchback mpfi 3 gas sedan mpfi 4 gas sedan mpfi ••• 200 gas sedan mpfi 201 gas sedan mpfi 202 gas sedan mpfi 203 diesel idi sedan 204 gas sedan mpfi 205 rows × 3 columns In [17]: le=LabelEncoder() In [18]: le.fit\_transform(df2["fueltype"]) 1, 1, 1, 1, 1, 1, 0, 1, 0, 1, 1, 0, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 1]) In [20]: df2["fueltype\_le\_eco"]=le.fit\_transform(df2["fueltype"]) A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row\_indexer,col\_indexer] = value instead See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html#returning-a-view-versus-a-copy df2["fueltype\_le\_eco"]=le.fit\_transform(df2["fueltype"]) In [22]: df2 Out[22]: fueltype carbody fuelsystem fueltype\_le\_eco 0 convertible mpfi 1 1 mpfi gas convertible 2 1 gas hatchback mpfi 3 1 sedan mpfi gas 1 4 gas sedan mpfi 200 1 gas sedan mpfi 201 sedan mpfi gas 1 202 gas sedan mpfi 0 203 diesel idi sedan 1 204 sedan mpfi 205 rows × 4 columns In [23]: df2["fueltype"].value\_counts() 185 Out[23]: gas 20 diesel Name: fueltype, dtype: int64 In [29]: df["carbody"].value\_counts() sedan Out[29]: hatchback 70 25 wagon hardtop convertible Name: carbody, dtype: int64 # we converted carbody category in ordinal data for understanding point of view sedan very good=1 hatchback good=2 wagon avarage=3 hardtop bad=4 convertible very bad=5 In [34]: order\_label1={"sedan":1, "hatchback":2, "wagon":3, "hardtop":4, "convertible":5} df2["carbody"].map(order\_label1) Out[35]: 0 5 1 2 3 5 2 1 4 1 200 201 1 202 1 203 1 204 Name: carbody, Length: 205, dtype: int64 In [36]: df2["carbody\_ol\_enc"]=df2["carbody"].map(order\_label1) <ipython-input-36-8a64676403ba>:1: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row\_indexer,col\_indexer] = value instead See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user\_guide/indexing.html#returning-a-view-versus-a-copy df2["carbody\_ol\_enc"]=df2["carbody"].map(order\_label1) In [37]: df2 fueltype carbody fuelsystem fueltype\_le\_eco carbody\_ol\_enc Out[37]: 5 0 gas convertible mpfi 5 1 1 gas convertible mpfi 2 1 2 gas hatchback mpfi 3 1 sedan mpfi gas 4 mpfi 1 1 gas sedan 200 sedan mpfi 1 1 gas 201 sedan mpfi 1 1 gas 202 sedan mpfi 1 1 gas 0 203 idi diesel sedan 1 204 sedan mpfi 1 gas 205 rows × 5 columns In [ ]:

In [1]:

In [16]:

import pandas as pd

from sklearn.preprocessing import LabelEncoder