**Retail price prediction using Logistic Regression**

import pandas as pd

from sklearn import linear\_model

df = pd.read\_csv("/content/retail\_price.csv")

df.head()

features\_columns = ['unit\_price','product\_weight\_g','product\_category\_name','product\_score','qty','month\_year','product\_name\_lenght','product\_photos\_qty','weekday','weekend','holiday','lag\_price']

data = df[features\_columns]

from sklearn.preprocessing import LabelEncoder

encoder = LabelEncoder()

data["product\_category\_name\_encoded"] = encoder.fit\_transform(data["product\_category\_name"])

data.drop("product\_category\_name",axis = 1)

data.drop('month\_year',axis = 1)

reg = linear\_model.LinearRegression()

reg.fit(data[['product\_weight\_g','product\_category\_name\_encoded','product\_score','qty','product\_name\_lenght','product\_photos\_qty','weekday','weekend','holiday','lag\_price']],data.unit\_price)

retail\_price = reg.predict([[200,1,3,5,40,2,26,5,9,43]])

**out Put:**

array([39.14102038])