

## 1)problem Statement:which model is best for Flight Price Prediction Dataset

```
In [113]: ▶ import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

```
In [114]: m=pd.read_csv(r"C:\Users\chinta pavani\Downloads\Data_Train.csv")
m
```

Out[114]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Dur
0	IndiGo	24/03/2019	Banglore	New Delhi	BLR → DEL	22:20	01:10 22 Mar	2h
1	Air India	1/05/2019	Kolkata	Banglore	CCU → IXR → BBI → BLR	05:50	13:15	7h
2	Jet Airways	9/06/2019	Delhi	Cochin	DEL → LKO → BOM → COK	09:25	04:25 10 Jun	
3	IndiGo	12/05/2019	Kolkata	Banglore	CCU → NAG → BLR	18:05	23:30	5h
4	IndiGo	01/03/2019	Banglore	New Delhi	BLR → NAG → DEL	16:50	21:35	4h
...	...	...	...	...	...	...	...	
10678	Air Asia	9/04/2019	Kolkata	Banglore	CCU → BLR	19:55	22:25	2h
10679	Air India	27/04/2019	Kolkata	Banglore	CCU → BLR	20:45	23:20	2h
10680	Jet Airways	27/04/2019	Banglore	Delhi	BLR → DEL	08:20	11:20	
10681	Vistara	01/03/2019	Banglore	New Delhi	BLR → DEL	11:30	14:10	2h
10682	Air India	9/05/2019	Delhi	Cochin	DEL → GOI → BOM → COK	10:55	19:15	8h

10683 rows × 11 columns

```
In [115]: s=pd.read_csv(r"C:\Users\chinta pavani\Downloads\Test_set.csv")
s
```

Out[115]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Dura
0	Jet Airways	6/06/2019	Delhi	Cochin	DEL → BOM → COK	17:30	04:25 07 Jun	10h
1	IndiGo	12/05/2019	Kolkata	Banglore	CCU → MAA → BLR	06:20	10:20	
2	Jet Airways	21/05/2019	Delhi	Cochin	DEL → BOM → COK	19:15	19:00 22 May	23h
3	Multiple carriers	21/05/2019	Delhi	Cochin	DEL → BOM → COK	08:00	21:00	
4	Air Asia	24/06/2019	Banglore	Delhi	BLR → DEL	23:55	02:45 25 Jun	2h
...	...	...	...	...	...	...	...	
2666	Air India	6/06/2019	Kolkata	Banglore	CCU → DEL → BLR	20:30	20:25 07 Jun	23h
2667	IndiGo	27/03/2019	Kolkata	Banglore	CCU → BLR	14:20	16:55	2h
2668	Jet Airways	6/03/2019	Delhi	Cochin	DEL → BOM → COK	21:50	04:25 07 Mar	6h
2669	Air India	6/03/2019	Delhi	Cochin	DEL → BOM → COK	04:00	19:15	15h
2670	Multiple carriers	15/06/2019	Delhi	Cochin	DEL → BOM → COK	04:55	19:15	14h

2671 rows × 10 columns

In [116]: `m.head()`

Out[116]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Duration
0	IndiGo	24/03/2019	Banglore	New Delhi	BLR → DEL	22:20	01:10 22 Mar	2h 50r
1	Air India	1/05/2019	Kolkata	Banglore	CCU → IXR → BBI → BLR	05:50	13:15	7h 25r
2	Jet Airways	9/06/2019	Delhi	Cochin	DEL → LKO → BOM → COK	09:25	04:25 10 Jun	19h
3	IndiGo	12/05/2019	Kolkata	Banglore	CCU → NAG → BLR	18:05	23:30	5h 25r
4	IndiGo	01/03/2019	Banglore	New Delhi	BLR → NAG → DEL	16:50	21:35	4h 45r

In [117]: `s.head()`

Out[117]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Duration
0	Jet Airways	6/06/2019	Delhi	Cochin	DEL → BOM → COK	17:30	04:25 07 Jun	10h 55m
1	IndiGo	12/05/2019	Kolkata	Banglore	CCU → MAA → BLR	06:20	10:20	4h 00m
2	Jet Airways	21/05/2019	Delhi	Cochin	DEL → BOM → COK	19:15	19:00 22 May	23h 45m
3	Multiple carriers	21/05/2019	Delhi	Cochin	DEL → BOM → COK	08:00	21:00	13h 00m
4	Air Asia	24/06/2019	Banglore	Delhi	BLR → DEL	23:55	02:45 25 Jun	2h 50m

In [118]: `m.tail()`

Out[118]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Duration
10678	Air Asia	9/04/2019	Kolkata	Banglore	CCU → BLR	19:55	22:25	2h 30m
10679	Air India	27/04/2019	Kolkata	Banglore	CCU → BLR	20:45	23:20	2h 35m
10680	Jet Airways	27/04/2019	Banglore	Delhi	BLR → DEL	08:20	11:20	3h 00m
10681	Vistara	01/03/2019	Banglore	New Delhi	BLR → DEL	11:30	14:10	2h 40m
10682	Air India	9/05/2019	Delhi	Cochin	DEL → GOI → BOM → COK	10:55	19:15	8h 20m

In [119]: `s.tail()`

Out[119]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Durati
2666	Air India	6/06/2019	Kolkata	Banglore	CCU → DEL → BLR	20:30	20:25 07 Jun	23h 5
2667	IndiGo	27/03/2019	Kolkata	Banglore	CCU → BLR	14:20	16:55	2h 3
2668	Jet Airways	6/03/2019	Delhi	Cochin	DEL → BOM → COK	21:50	04:25 07 Mar	6h 3
2669	Air India	6/03/2019	Delhi	Cochin	DEL → BOM → COK	04:00	19:15	15h 1
2670	Multiple carriers	15/06/2019	Delhi	Cochin	DEL → BOM → COK	04:55	19:15	14h 2

In [120]: `m.describe()`

Out[120]:

	Price
count	10683.000000
mean	9087.064121
std	4611.359167
min	1759.000000
25%	5277.000000
50%	8372.000000
75%	12373.000000
max	79512.000000

In [121]: `s.describe()`

Out[121]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Dur
count	2671	2671	2671	2671	2671	2671	2671	
unique	11	44	5	6	100	199	704	
top	Jet Airways	9/05/2019	Delhi	Cochin	DEL → BOM → COK	10:00	19:00	2h
freq	897	144	1145	1145	624	62	113	

In [122]: `m.shape`

Out[122]: (10683, 11)

In [123]: `s.shape`

Out[123]: (2671, 10)

In [124]: `m.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10683 entries, 0 to 10682
Data columns (total 11 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Airline                10683 non-null  object
1   Date_of_Journey        10683 non-null  object
2   Source                 10683 non-null  object
3   Destination            10683 non-null  object
4   Route                 10682 non-null  object
5   Dep_Time               10683 non-null  object
6   Arrival_Time           10683 non-null  object
7   Duration               10683 non-null  object
8   Total_Stops            10682 non-null  object
9   Additional_Info        10683 non-null  object
10  Price                 10683 non-null  int64
dtypes: int64(1), object(10)
memory usage: 918.2+ KB
```

In [125]: `s.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2671 entries, 0 to 2670
Data columns (total 10 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Airline                2671 non-null   object
1   Date_of_Journey        2671 non-null   object
2   Source                 2671 non-null   object
3   Destination             2671 non-null   object
4   Route                  2671 non-null   object
5   Dep_Time                2671 non-null   object
6   Arrival_Time            2671 non-null   object
7   Duration                2671 non-null   object
8   Total_Stops             2671 non-null   object
9   Additional_Info         2671 non-null   object
dtypes: object(10)
memory usage: 208.8+ KB
```

In [126]: `m.duplicated().sum()`

Out[126]: 220

In [127]: `s.duplicated().sum()`

Out[127]: 26

In [128]: `m.columns`

Out[128]: Index(['Airline', 'Date\_of\_Journey', 'Source', 'Destination', 'Route',  
 'Dep\_Time', 'Arrival\_Time', 'Duration', 'Total\_Stops',  
 'Additional\_Info', 'Price'],  
 dtype='object')

In [129]: `s.columns`

Out[129]: Index(['Airline', 'Date\_of\_Journey', 'Source', 'Destination', 'Route',  
 'Dep\_Time', 'Arrival\_Time', 'Duration', 'Total\_Stops',  
 'Additional\_Info'],  
 dtype='object')



```
In [130]: m.isnull().sum()
```

```
Out[130]: Airline      0
          Date_of_Journey  0
          Source        0
          Destination    0
          Route          1
          Dep_Time       0
          Arrival_Time   0
          Duration       0
          Total_Stops     1
          Additional_Info 0
          Price          0
          dtype: int64
```

```
In [131]: s.isnull().sum()
```

```
Out[131]: Airline      0
          Date_of_Journey  0
          Source        0
          Destination    0
          Route          0
          Dep_Time       0
          Arrival_Time   0
          Duration       0
          Total_Stops     0
          Additional_Info 0
          dtype: int64
```

```
In [132]: m.dropna(inplace=True)
```

```
In [133]: m.isnull().sum()
```

```
Out[133]: Airline      0
          Date_of_Journey  0
          Source        0
          Destination    0
          Route          0
          Dep_Time       0
          Arrival_Time   0
          Duration       0
          Total_Stops     0
          Additional_Info 0
          Price          0
          dtype: int64
```

```
In [134]: m.shape
```

```
Out[134]: (10682, 11)
```

```
In [157]: m['Airline'].value_counts()
```

```
Out[157]: Airline
0      3849
1      2053
2      1751
3      1196
4       818
5       479
6       319
7       194
8        13
9         6
10        3
11        1
Name: count, dtype: int64
```

```
In [158]: m['Source'].value_counts()
```

```
Out[158]: Source
0      4536
1      2871
2      2197
3       697
4       381
Name: count, dtype: int64
```

```
In [160]: m['Destination'].value_counts()
```

```
Out[160]: Destination
0      4536
1      2871
2      1265
3       932
4       697
5       381
Name: count, dtype: int64
```

```
In [161]: m['Total_Stops'].value_counts()
```

```
Out[161]: Total_Stops
1 stop      5625
non-stop    3491
2 stops     1520
3 stops      45
4 stops      1
Name: count, dtype: int64
```

```
In [162]: flight={"Airline":{"Jet Airways":0,"IndiGo":1,"Air India":2,"Multiple carriers Premium economy":8,"SpiceJet":4,"Vistara":5,"Air Asia":6,"GoAir":7,"Jet Airways Business":9,"Vistara Premium economy":10,"Trujet":11}}
m=m.replace(flight)
m
```

Out[162]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Durat
0	1	24/03/2019	2	3	BLR → DEL	22:20	01:10 22 Mar	2h 5
1	2	1/05/2019	1	1	CCU → IXR → BBI → BLR	05:50	13:15	7h 2
2	0	9/06/2019	0	0	DEL → LKO → BOM → COK	09:25	04:25 10 Jun	.
3	1	12/05/2019	1	1	CCU → NAG → BLR	18:05	23:30	5h 2
4	1	01/03/2019	2	3	BLR → NAG → DEL	16:50	21:35	4h 4
...	...	...	...	...	...	...	...	
10678	6	9/04/2019	1	1	CCU → BLR	19:55	22:25	2h 3
10679	2	27/04/2019	1	1	CCU → BLR	20:45	23:20	2h 3
10680	0	27/04/2019	2	2	BLR → DEL	08:20	11:20	
10681	5	01/03/2019	2	3	BLR → DEL	11:30	14:10	2h 4
10682	2	9/05/2019	0	0	DEL → GOI → BOM → COK	10:55	19:15	8h 2

10682 rows × 11 columns

```
In [164]: > city={"Source":{"Delhi":0,"Kolkata":1,"Banglore":2,
    "Mumbai":3,"Chennai":4}}
    m=m.replace(city)
    m
```

Out[164]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Durat
0	1	24/03/2019	2	3	BLR → DEL	22:20	01:10 22 Mar	2h 5
1	2	1/05/2019	1	1	CCU → IXR → BBI → BLR	05:50	13:15	7h 2
2	0	9/06/2019	0	0	DEL → LKO → BOM → COK	09:25	04:25 10 Jun	.
3	1	12/05/2019	1	1	CCU → NAG → BLR	18:05	23:30	5h 2
4	1	01/03/2019	2	3	BLR → NAG → DEL	16:50	21:35	4h 4
...	...	...	...	...	...	...	...	
10678	6	9/04/2019	1	1	CCU → BLR	19:55	22:25	2h 3
10679	2	27/04/2019	1	1	CCU → BLR	20:45	23:20	2h 3
10680	0	27/04/2019	2	2	BLR → DEL	08:20	11:20	
10681	5	01/03/2019	2	3	BLR → DEL	11:30	14:10	2h 4
10682	2	9/05/2019	0	0	DEL → GOI → BOM → COK	10:55	19:15	8h 2

10682 rows × 11 columns



```
In [165]: destination={"Destination":{"Cochin":0,"Banglore":1,"Delhi":2,
    "New Delhi":3,"Hyderabad":4,"Kolkata":5}}
    m=m.replace(destination)
    m
```

Out[165]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Durat
0	1	24/03/2019	2	3	BLR → DEL	22:20	01:10 22 Mar	2h 5
1	2	1/05/2019	1	1	CCU → IXR → BBI → BLR	05:50	13:15	7h 2
2	0	9/06/2019	0	0	DEL → LKO → BOM → COK	09:25	04:25 10 Jun	.
3	1	12/05/2019	1	1	CCU → NAG → BLR	18:05	23:30	5h 2
4	1	01/03/2019	2	3	BLR → NAG → DEL	16:50	21:35	4h 4
...	...	...	...	...	...	...	...	
10678	6	9/04/2019	1	1	CCU → BLR	19:55	22:25	2h 3
10679	2	27/04/2019	1	1	CCU → BLR	20:45	23:20	2h 3
10680	0	27/04/2019	2	2	BLR → DEL	08:20	11:20	
10681	5	01/03/2019	2	3	BLR → DEL	11:30	14:10	2h 4
10682	2	9/05/2019	0	0	DEL → GOI → BOM → COK	10:55	19:15	8h 2

10682 rows × 11 columns





```
In [166]: stops={"Total_Stops":{"non-stop":0,"1 stop":1,"2 stops":2,
"3 stops":3,"4 stops":4}}
m=m.replace(stops)
m
```

Out[166]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Durat
0	1	24/03/2019	2	3	BLR → DEL	22:20	01:10 22 Mar	2h 5
1	2	1/05/2019	1	1	CCU → IXR → BBI → BLR	05:50	13:15	7h 2
2	0	9/06/2019	0	0	DEL → LKO → BOM → COK	09:25	04:25 10 Jun	.
3	1	12/05/2019	1	1	CCU → NAG → BLR	18:05	23:30	5h 2
4	1	01/03/2019	2	3	BLR → NAG → DEL	16:50	21:35	4h 4
...	...	...	...	...	...	...	...	
10678	6	9/04/2019	1	1	CCU → BLR	19:55	22:25	2h 3
10679	2	27/04/2019	1	1	CCU → BLR	20:45	23:20	2h 3
10680	0	27/04/2019	2	2	BLR → DEL	08:20	11:20	
10681	5	01/03/2019	2	3	BLR → DEL	11:30	14:10	2h 4
10682	2	9/05/2019	0	0	DEL → GOI → BOM → COK	10:55	19:15	8h 2

10682 rows × 11 columns

## Data Visualization

```
In [168]: fdf=m[['Airline','Source','Destination','Total_Stops','Price']]
sns.heatmap(fdf.corr(),annot=True)
```

Out[168]: <Axes: >



```
In [169]: x=fdf[['Airline','Source','Destination','Total_Stops']]
y=fdf['Price']
```

```
In [170]: from sklearn.model_selection import train_test_split
X_train,X_test,y_train,y_test=train_test_split(x,y,test_size=0.3,random_st
```

## Linear Regression

```
In [171]: from sklearn.linear_model import LinearRegression
regr=LinearRegression()
regr.fit(X_train,y_train)
print(regr.intercept_)
coeff_df=pd.DataFrame(regr.coef_,x.columns,columns=['coefficient'])
coeff_df
```

7211.098088897488

Out[171]:

	coefficient
<b>Airline</b>	-418.483922
<b>Source</b>	-3275.073380
<b>Destination</b>	2505.480291
<b>Total_Stops</b>	3541.798053

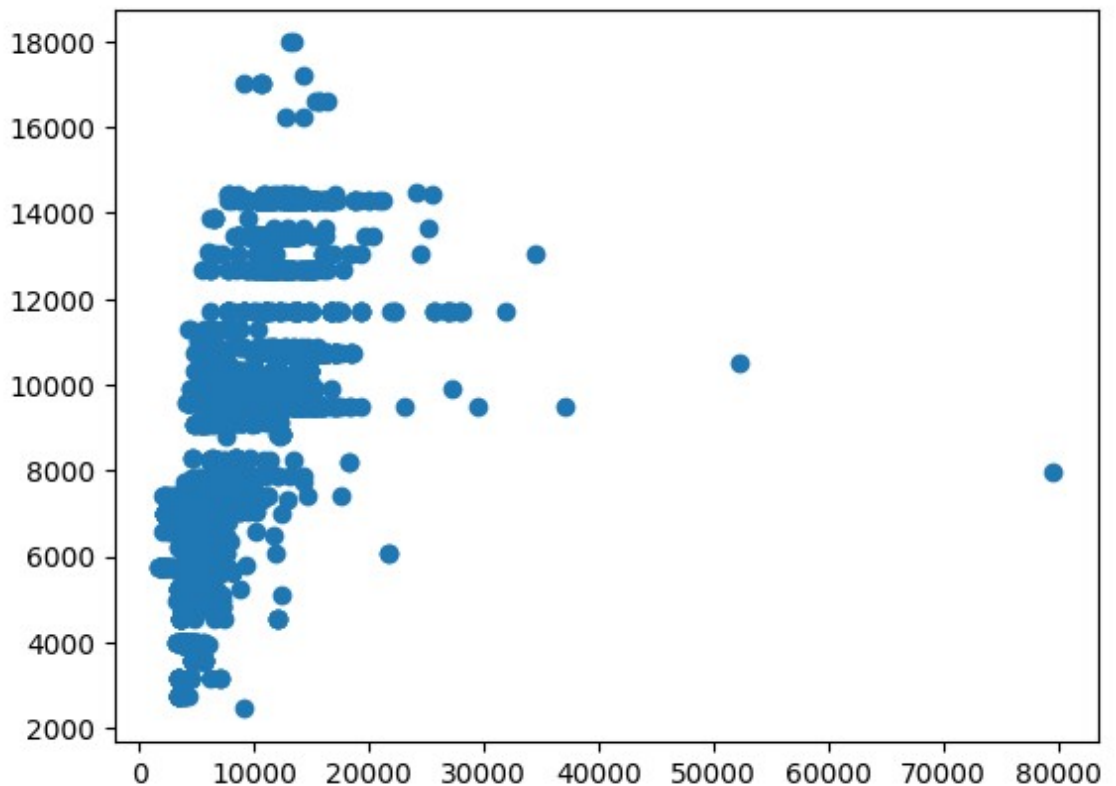
```
In [172]: score=regr.score(X_test,y_test)
print(score)
```

0.4108304890928348

```
In [173]: predictions=regr.predict(X_test)
```

```
In [174]: plt.scatter(y_test,predictions)
```

Out[174]: <matplotlib.collections.PathCollection at 0x19b2c0bd2d0>



```
In [175]: x=np.array(fdf['Price']).reshape(-1,1)
y=np.array(fdf['Total_Stops']).reshape(-1,1)
fdf.dropna(inplace=True)
```

C:\Users\chinta pavani\AppData\Local\Temp\ipykernel\_5260\521034954.py:3:  
SettingWithCopyWarning:  
A value is trying to be set on a copy of a slice from a DataFrame

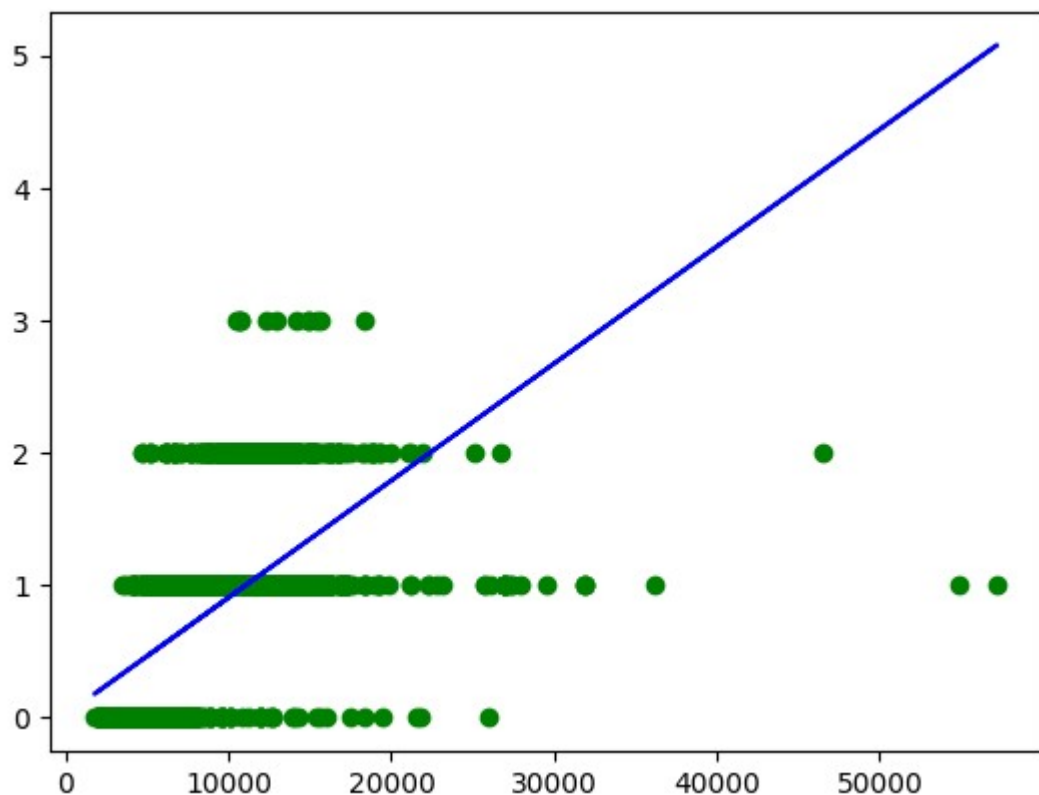
See the caveats in the documentation: [https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy) ([https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy))  
fdf.dropna(inplace=True)

```
In [176]: X_train,X_test,y_train,y_test=train_test_split(x,y,test_size=0.3)
regr.fit(X_train,y_train)
regr.fit(X_train,y_train)
```

Out[176]:

LinearRegression
LinearRegression()

```
In [177]: y_pred=regr.predict(X_test)
plt.scatter(X_test,y_test,color='g')
plt.plot(X_test,y_pred,color='b')
plt.show()
```



## Logistic Regression

```
In [178]: ▶ #Logistic Regression
x=np.array(fdf['Price']).reshape(-1,1)
y=np.array(fdf['Total_Stops']).reshape(-1,1)
fdf.dropna(inplace=True)
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.3,random_state=42)
from sklearn.linear_model import LogisticRegression
lr=LogisticRegression(max_iter=10000)
```

C:\Users\chinta pavani\AppData\Local\Temp\ipykernel\_5260\3604832714.py:4:

SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: [https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy) ([https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy))

```
fdf.dropna(inplace=True)
```

```
In [179]: ▶ lr.fit(x_train,y_train)
```

C:\Users\chinta pavani\AppData\Local\Programs\Python\Python311\Lib\site-packages\sklearn\utils\validation.py:1143: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

```
y = column_or_1d(y, warn=True)
```

Out[179]:

```
▼      LogisticRegression
LogisticRegression(max_iter=10000)
```

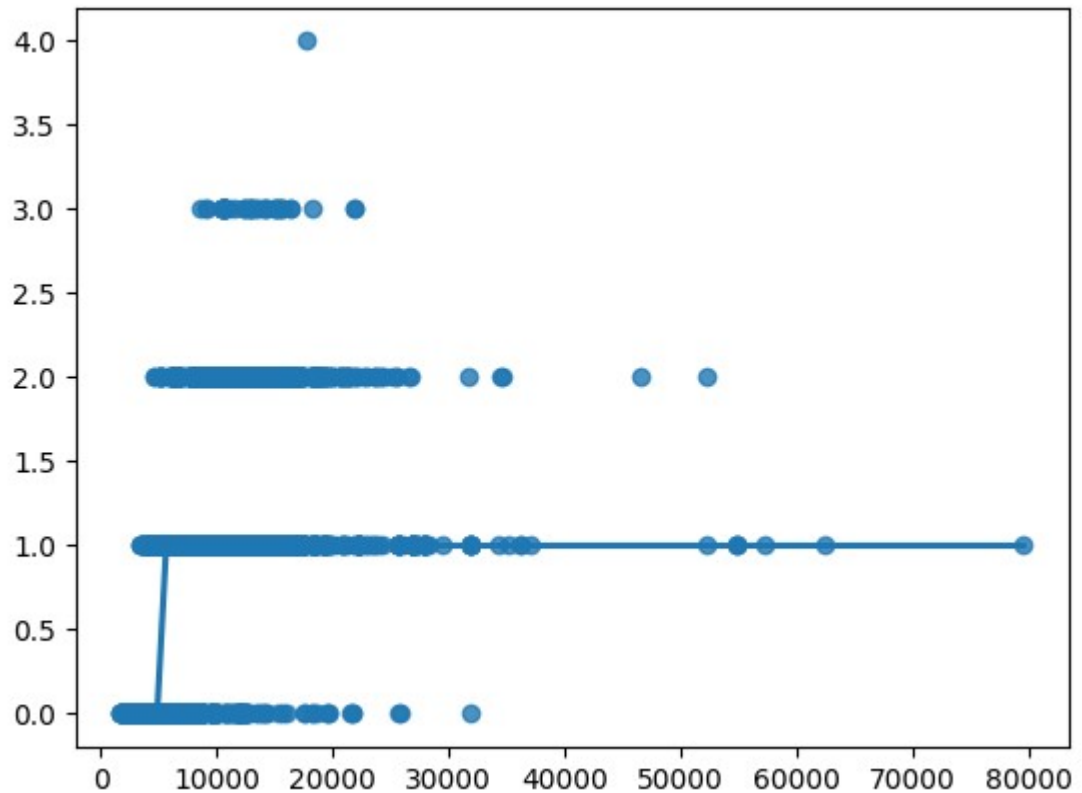
```
In [180]: ▶ score=lr.score(x_test,y_test)
print(score)
```

```
0.7160686427457098
```

In [181]: `sns.regplot(x=x,y=y,data=fd,logistic=True,ci=None)`

C:\Users\chinta pavani\AppData\Local\Programs\Python\Python311\Lib\site-packages\statsmodels\genmod\link.py:198: RuntimeWarning: overflow encountered in exp  
t = np.exp(-z)

Out[181]: <Axes: >



## Decision Tree

In [182]: `from sklearn.tree import DecisionTreeClassifier  
clf=DecisionTreeClassifier(random_state=0)  
clf.fit(x_train,y_train)`

Out[182]: `DecisionTreeClassifier  
DecisionTreeClassifier(random_state=0)`

In [183]: `score=clf.score(x_test,y_test)  
print(score)`

0.9369734789391576

## Random Forest

```
In [184]: #Random forest classifier
from sklearn.ensemble import RandomForestClassifier
rfc=RandomForestClassifier()
rfc.fit(X_train,y_train)
```

C:\Users\chinta pavani\AppData\Local\Temp\ipykernel\_5260\1232785509.py:4: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples,), for example using ravel().

```
rfc.fit(X_train,y_train)
```

```
Out[184]: ▼ RandomForestClassifier
RandomForestClassifier()
```

```
In [185]: params={'max_depth':[2,3,5,10,20], 'min_samples_leaf':[5,10,20,50,100,200],
```

```
In [186]: from sklearn.model_selection import GridSearchCV
grid_search=GridSearchCV(estimator=rfc,param_grid=params,cv=2,scoring="acc
```

```
In [187]: grid_search.fit(X_train,y_train)
```

C:\Users\chinta pavani\AppData\Local\Programs\Python\Python311\Lib\site-packages\sklearn\model\_selection\\_split.py:700: UserWarning: The least populated class in y has only 1 members, which is less than n\_splits=2.

warnings.warn(  
C:\Users\chinta pavani\AppData\Local\Programs\Python\Python311\Lib\site-packages\sklearn\model\_selection\\_validation.py:686: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples,), for example using ravel().

estimator.fit(X\_train, y\_train, \*\*fit\_params)  
C:\Users\chinta pavani\AppData\Local\Programs\Python\Python311\Lib\site-packages\sklearn\model\_selection\\_validation.py:686: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples,), for example using ravel().

estimator.fit(X\_train, y\_train, \*\*fit\_params)  
C:\Users\chinta pavani\AppData\Local\Programs\Python\Python311\Lib\site-packages\sklearn\model\_selection\\_validation.py:686: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples,), for example using ravel().

estimator.fit(X\_train, y\_train, \*\*fit\_params)

```
In [188]: grid_search.best_score_
```

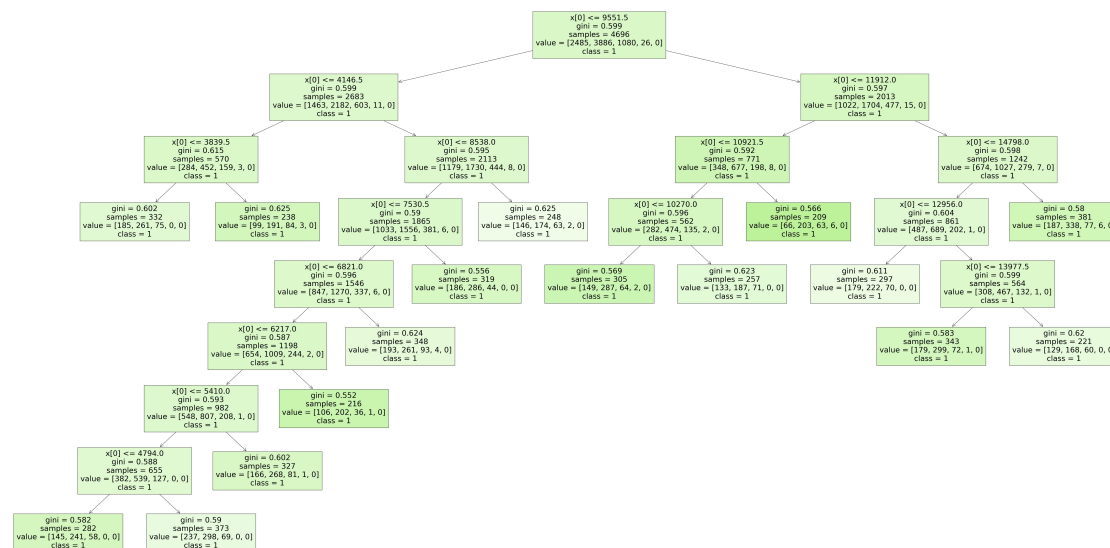
```
Out[188]: 0.5245420452875429
```

```
In [189]: rf_best=grid_search.best_estimator_
rf_best
```

Out[189]:

```
RandomForestClassifier
RandomForestClassifier(max_depth=20, min_samples_leaf=200, n_estimators=
25)
```

```
In [190]: from sklearn.tree import plot_tree
plt.figure(figsize=(80,40))
plot_tree(rf_best.estimators_[4],class_names=['0','1','2','3','4'],filled=
```



```
In [191]: score=rfc.score(x_test,y_test)
print(score)
```

0.4627145085803432

## Conclusion:

```
In [ ]: *Here when we compare between Decision Tree and Random Forest, we
can confirm that Decision Tree has more accuracy than Random Forest
which makes it the best model for this dataset.
*It makes DecisionTree to perform better than Random Forest.
*But it may vary for the other datasets where in most cases Random Forest p
* Based on accuracy scores of all models that were
implemented we can conclude that "Decision Tree" is the best model for
the given dataset
```