

## Problem Statement:

Implementing all models in the dataset. we have to predict which model is best model for Dataset. Based on the accuracy.

In [1]:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sn
```

## Data Collection:

Data is collected from kaggle. for implementing all models. In this train dataset contains 10683 rows and 11 columns. In the test dataset contains 2671 rows and 10 columns.

In [2]:

```
train_df=pd.read_csv(r"C:\Users\raja\Downloads\Data_Train.csv")
train_df
```

Out[2]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Dura
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 [3]:

```
test_df=pd.read_csv(r"C:\Users\raja\Downloads\Test_set.csv")
test_df
```

Out[3]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Durat
0	Jet Airways	6/06/2019	Delhi	Cochin	DEL → BOM → COK	17:30	04:25 07 Jun	10h 5
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 4
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 5
...	...	...	...	...	...	...	...	
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

2671 rows × 10 columns



# Data Cleaning and Preprocessing

In [4]:

```
train_df.head()
```

Out[4]:

	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 50m
1	Air India	1/05/2019	Kolkata	Banglore	CCU → IXR → BBI → BLR	05:50	13:15	7h 25m
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 25m
4	IndiGo	01/03/2019	Banglore	New Delhi	BLR → NAG → DEL	16:50	21:35	4h 45m



In [5]:

```
test_df.head()
```

Out[5]:

	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
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
4	Air Asia	24/06/2019	Banglore	Delhi	BLR → DEL	23:55	02:45 25 Jun	2h 50m

In [6]:

```
train_df.tail()
```

Out[6]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Dura
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

In [7]:

```
test_df.tail()
```

Out[7]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Duratic
2666	Air India	6/06/2019	Kolkata	Banglore	CCU → DEL → BLR	20:30	20:25 07 Jun	23h 55
2667	IndiGo	27/03/2019	Kolkata	Banglore	CCU → BLR	14:20	16:55	2h 35
2668	Jet Airways	6/03/2019	Delhi	Cochin	DEL → BOM → COK	21:50	04:25 07 Mar	6h 35
2669	Air India	6/03/2019	Delhi	Cochin	DEL → BOM → COK	04:00	19:15	15h 15
2670	Multiple carriers	15/06/2019	Delhi	Cochin	DEL → BOM → COK	04:55	19:15	14h 20

In [8]:

```
train_df.describe()
```

Out[8]:

	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 [9]:

```
test_df.describe()
```

Out[9]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Dura
count	2671	2671	2671	2671	2671	2671	2671	2
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 [10]:

```
train_df.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 [11]:

```
test_df.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 [12]:

```
train_df.size
```

Out[12]:

117513

In [13]:

```
test_df.size
```

Out[13]:

26710

In [14]:

```
train_df.shape
```

Out[14]:

(10683, 11)

In [15]:

```
test_df.shape
```

Out[15]:

(2671, 10)

## Exploratory Data Analysis



In [16]:

```
train_df.isnull().sum()
```

Out[16]:

```
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 [17]:

```
test_df.isnull().sum()
```

Out[17]:

```
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 [18]:

```
train_df.duplicated().sum()
```

Out[18]:

```
220
```

In [19]:

```
test_df.duplicated().sum()
```

Out[19]:

```
26
```

In [20]:

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

In [21]:

```
train_df.isnull().sum()
```

Out[21]:

```
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 [22]:

```
train_df['Airline'].value_counts()
```

Out[22]:

```
Airline
Jet Airways      3849
IndiGo           2053
Air India        1751
Multiple carriers 1196
SpiceJet         818
Vistara          479
Air Asia         319
GoAir            194
Multiple carriers Premium economy 13
Jet Airways Business 6
Vistara Premium economy 3
Trujet           1
Name: count, dtype: int64
```

In [23]:

```
train_df['Source'].value_counts()
```

Out[23]:

```
Source
Delhi      4536
Kolkata    2871
Bangalore  2197
Mumbai     697
Chennai    381
Name: count, dtype: int64
```

In [24]:

```
train_df['Destination'].value_counts()
```

Out[24]:

```
Destination
Cochin      4536
Banglore    2871
Delhi       1265
New Delhi   932
Hyderabad   697
Kolkata     381
Name: count, dtype: int64
```

In [25]:

```
train_df['Total_Stops'].value_counts()
```

Out[25]:

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

In [26]:

```
airline={"Airline":{"Jet Airways":0,"IndiGo":1,"Air India":2,"Multiple carriers":3,  
"SpiceJet":4,"Vistara":5,"Air Asia":6,"GoAir":7,  
"Multiple carriers Premium economy":8,  
"Jet Airways Business":9,"Vistara Premium economy":10,"Trujet":11}}  
train_df=train_df.replace(airline)  
train_df
```

Out[26]:

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

10682 rows × 11 columns



In [27]:

```
city={"Source":{"Delhi":0,"Kolkata":1,"Banglore":2,
"Mumbai":3,"Chennai":4}}
train_df=train_df.replace(city)
train_df
```

Out[27]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Duratio
0	1	24/03/2019	2	New Delhi	BLR → DEL	22:20	01:10 22 Mar	2h 50
1	2	1/05/2019	1	Banglore	CCU → IXR → BBI → BLR	05:50	13:15	7h 25
2	0	9/06/2019	0	Cochin	DEL → LKO → BOM → COK	09:25	04:25 10 Jun	1h
3	1	12/05/2019	1	Banglore	CCU → NAG → BLR	18:05	23:30	5h 25
4	1	01/03/2019	2	New Delhi	BLR → NAG → DEL	16:50	21:35	4h 45
...	...	...	...	...	...	...	...	
10678	6	9/04/2019	1	Banglore	CCU → BLR	19:55	22:25	2h 30
10679	2	27/04/2019	1	Banglore	CCU → BLR	20:45	23:20	2h 35
10680	0	27/04/2019	2	Delhi	BLR → DEL	08:20	11:20	3h
10681	5	01/03/2019	2	New Delhi	BLR → DEL	11:30	14:10	2h 40
10682	2	9/05/2019	0	Cochin	DEL → GOI → BOM → COK	10:55	19:15	8h 20

10682 rows × 11 columns



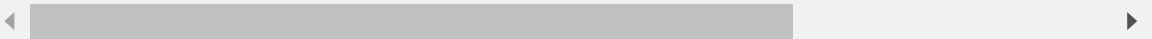
In [28]:

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

Out[28]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Duratio
0	1	24/03/2019	2	3	BLR → DEL	22:20	01:10 22 Mar	2h 50
1	2	1/05/2019	1	1	CCU → IXR → BBI → BLR	05:50	13:15	7h 25
2	0	9/06/2019	0	0	DEL → LKO → BOM → COK	09:25	04:25 10 Jun	1h
3	1	12/05/2019	1	1	CCU → NAG → BLR	18:05	23:30	5h 25
4	1	01/03/2019	2	3	BLR → NAG → DEL	16:50	21:35	4h 45
...	...	...	...	...	...	...	...	...
10678	6	9/04/2019	1	1	CCU → BLR	19:55	22:25	2h 30
10679	2	27/04/2019	1	1	CCU → BLR	20:45	23:20	2h 35
10680	0	27/04/2019	2	2	BLR → DEL	08:20	11:20	3h
10681	5	01/03/2019	2	3	BLR → DEL	11:30	14:10	2h 40
10682	2	9/05/2019	0	0	DEL → GOI → BOM → COK	10:55	19:15	8h 20

10682 rows × 11 columns



In [29]:

```
stops={"Total_Stops":{"non-stop":0,"1 stop":1,"2 stops":2,
"3 stops":3,"4 stops":4}}
train_df=train_df.replace(stops)
train_df
```

Out[29]:

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Duratio
0	1	24/03/2019	2	3	BLR → DEL	22:20	01:10 22 Mar	2h 50
1	2	1/05/2019	1	1	CCU → IXR → BBI → BLR	05:50	13:15	7h 25
2	0	9/06/2019	0	0	DEL → LKO → BOM → COK	09:25	04:25 10 Jun	1h
3	1	12/05/2019	1	1	CCU → NAG → BLR	18:05	23:30	5h 25
4	1	01/03/2019	2	3	BLR → NAG → DEL	16:50	21:35	4h 45
...	...	...	...	...	...	...	...	...
10678	6	9/04/2019	1	1	CCU → BLR	19:55	22:25	2h 30
10679	2	27/04/2019	1	1	CCU → BLR	20:45	23:20	2h 35
10680	0	27/04/2019	2	2	BLR → DEL	08:20	11:20	3h
10681	5	01/03/2019	2	3	BLR → DEL	11:30	14:10	2h 40
10682	2	9/05/2019	0	0	DEL → GOI → BOM → COK	10:55	19:15	8h 20

10682 rows × 11 columns





# Data visualization

In [30]:

```
import seaborn as sns
df=train_df[['Airline','Source','Destination','Total_Stops','Price']]
sns.heatmap(df.corr(),annot=True)
```

Out[30]:

<Axes: >



## Data Modelling

### Linear Regression

In [31]:

```
x=df[['Airline','Source','Destination','Total_Stops']]
y=df['Price']

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_state=100)
```

In [32]:

```
#Data prediction and Evaluation
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[32]:

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

In [33]:

```
score=regr.score(X_test,y_test)
print(score)
```

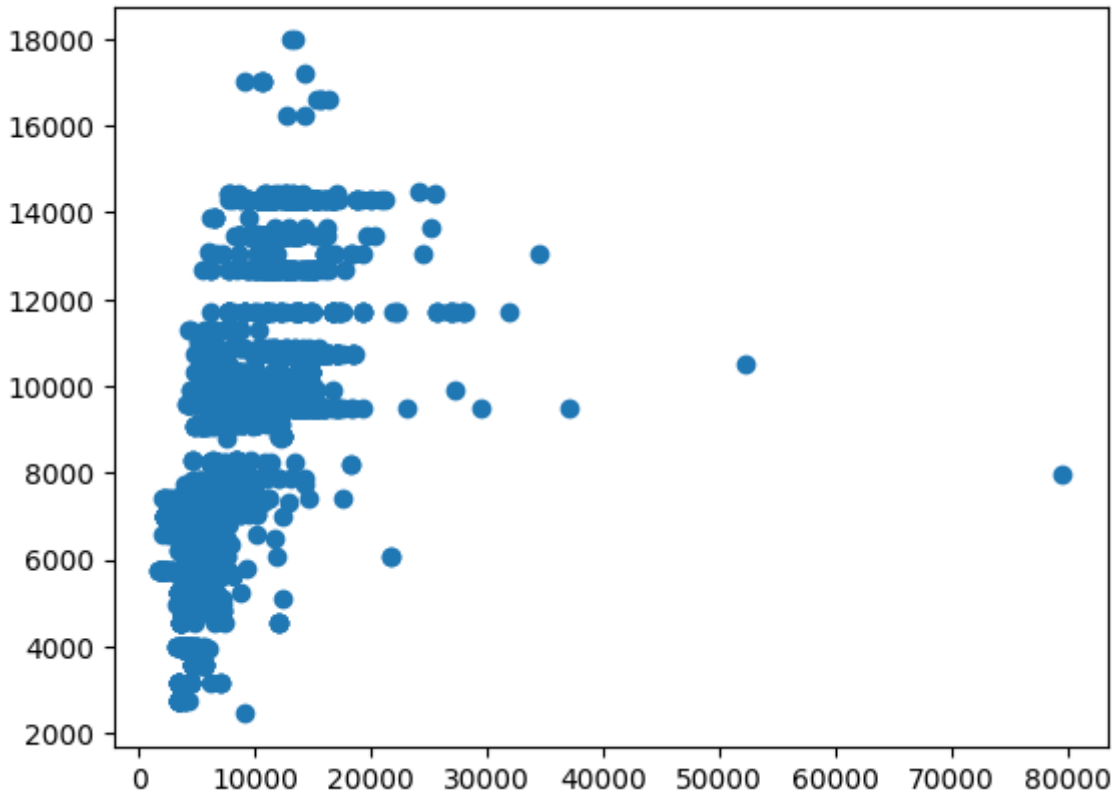
0.4108304890928348

In [34]:

```
predictions=regr.predict(X_test)
plt.scatter(y_test,predictions)
```

Out[34]:

<matplotlib.collections.PathCollection at 0x25a4e13bdf0>



In [35]:

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

C:\Users\raja\AppData\Local\Temp\ipykernel\_13156\2340303250.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))

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

In [36]:

```
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[36]:

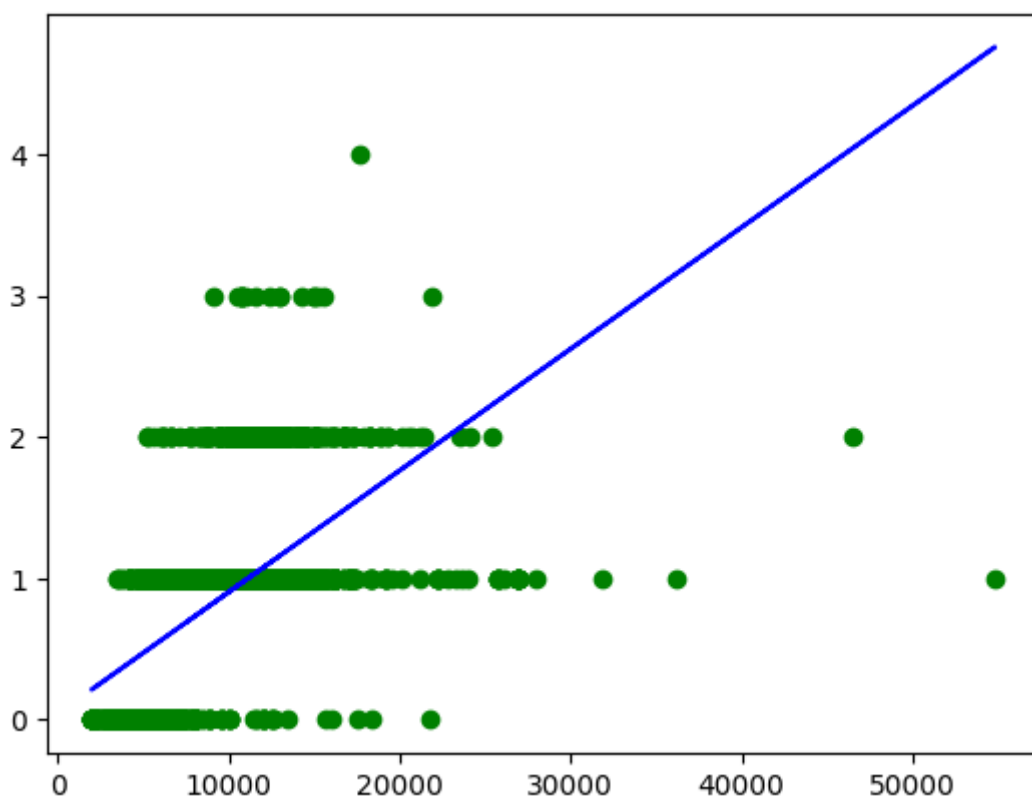
LinearRegression()

In a Jupyter environment, please rerun this cell to show the HTML representation or trust the notebook.

On GitHub, the HTML representation is unable to render, please try loading this page with nbviewer.org.

In [37]:

```
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 [38]:

```
x=np.array(df['Price']).reshape(-1,1)
y=np.array(df['Total_Stops']).reshape(-1,1)
df.dropna(inplace=True)
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.3,random_state=1)
from sklearn.linear_model import LogisticRegression
lr=LogisticRegression(max_iter=10000)
import warnings
warnings.simplefilter(action='ignore')
```

C:\Users\raja\AppData\Local\Temp\ipykernel\_13156\1264944960.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))  
df.dropna(inplace=True)

In [39]:

```
lr.fit(x_train,y_train)
```

Out[39]:

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

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In [40]:

```
score=lr.score(x_test,y_test)
print(score)
```

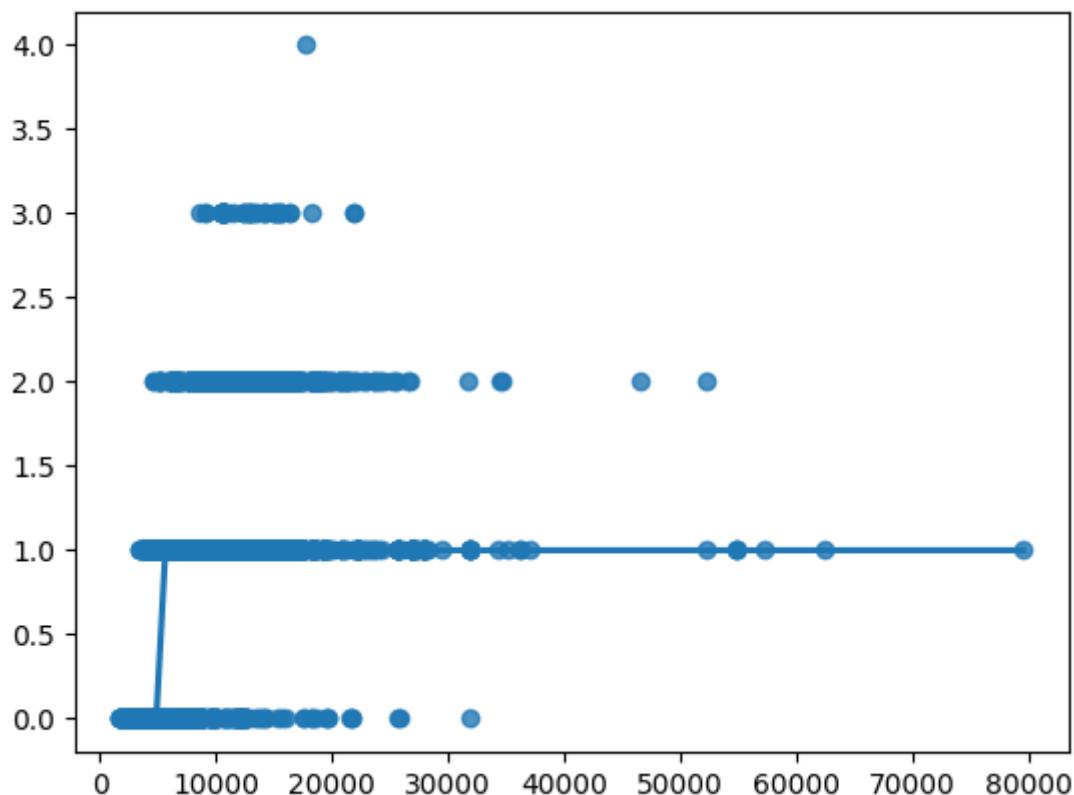
```
0.7160686427457098
```

In [41]:

```
sns.regplot(x=x,y=y,data=df,logistic=True,ci=None)
```

Out[41]:

<Axes: >



## Decision Tree

In [42]:

```
from sklearn.tree import DecisionTreeClassifier
clf=DecisionTreeClassifier(random_state=0)
clf.fit(x_train,y_train)
```

Out[42]:

DecisionTreeClassifier(random\_state=0)

**In a Jupyter environment, please rerun this cell to show the HTML representation or trust the notebook.**

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In [43]:

```
score=clf.score(x_test,y_test)
print(score)
```

0.9369734789391576

# Random Forest

In [44]:

```
from sklearn.ensemble import RandomForestClassifier
rfc=RandomForestClassifier()
rfc.fit(X_train,y_train)
```

Out[44]:

RandomForestClassifier()

**In a Jupyter environment, please rerun this cell to show the HTML representation or trust the notebook.**

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In [45]:

```
params={'max_depth':[2,3,5,10,20],
'min_samples_leaf':[5,10,20,50,100,200],
'n_estimators':[10,25,30,50,100,200]}
```

In [46]:

```
from sklearn.model_selection import GridSearchCV
grid_search=GridSearchCV(estimator=rfc,param_grid=params,cv=2,scoring="accuracy")
grid_search.fit(X_train,y_train)
```

Out[46]:

```
GridSearchCV(cv=2, estimator=RandomForestClassifier(),
             param_grid={'max_depth': [2, 3, 5, 10, 20],
                         'min_samples_leaf': [5, 10, 20, 50, 100, 200],
                         'n_estimators': [10, 25, 30, 50, 100, 200]},
             scoring='accuracy')
```

**In a Jupyter environment, please rerun this cell to show the HTML representation or trust the notebook.**

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In [47]:

```
grid_search.best_score_
```

Out[47]:

0.5241407611783937

In [48]:

```
rf_best=grid_search.best_estimator_  
rf_best
```

Out[48]:

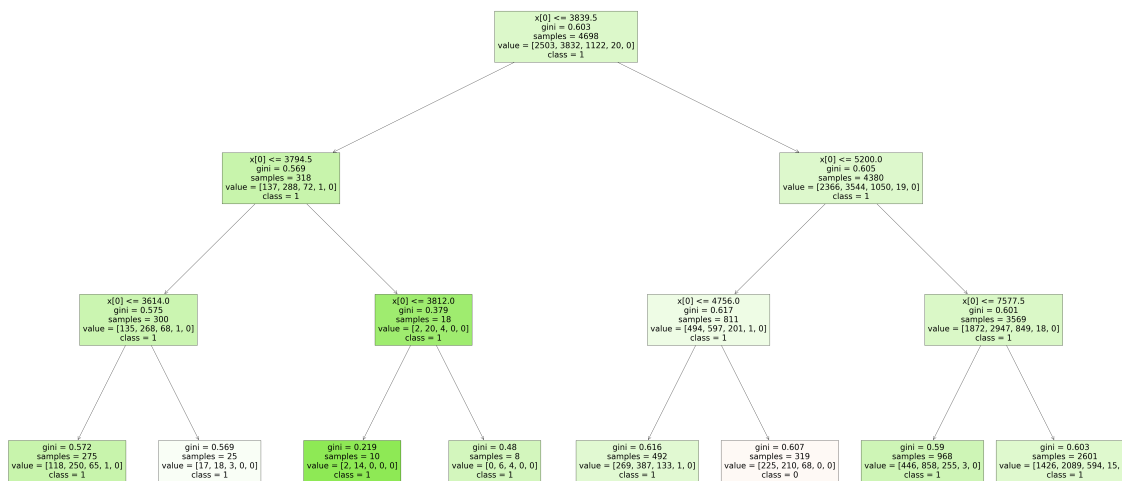
RandomForestClassifier(max\_depth=3, min\_samples\_leaf=5, n\_estimators=10)

In a Jupyter environment, please rerun this cell to show the HTML representation or trust the notebook.

On GitHub, the HTML representation is unable to render, please try loading this page with nbviewer.org.

In [49]:

```
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=True);
```



In [50]:

```
score=rfc.score(x_test,y_test)  
print(score)
```

0.4414976599063963

## Conclusion:

In the Flight Price Prediction dataset we have to find best model. after applying all models Decision Tree is the best model because the dataset got 93% accuracy. In Linear Regression 41% accuracy, In Logistic Regression 71% accuracy, In Random Forest 48% accuracy.

By Implementing all models in this dataset. we conclude Decision Tree is the best model for Flight Price Prediction dataset. Because it got high accuracy.



