

Untitled0.ipynb - Colaboratory +

colab.research.google.com/drive/1FiX_-ic788zVpSPpKPeQ3mFbGlvo4ct2#scrollTo=T7eKafNS0ZQm

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✓ [12] `import pandas as pd
import numpy as np
import matplotlib.pyplot as plt`

[x]

✓ [12] `data=pd.read_csv("Data_Train.csv")`

Ds

✓ [13] `data.head()`

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Duration	Total_Stops	Additional_Info	Price
0	IndiGo	24/03/2019	Banglore	New Delhi	BLR → DEL	22:20	01:10 22 Mar	2h 50m	non-stop	No info	3897
1	Air India	1/05/2019	Kolkata	Banglore	CCU → IXR → BBI → BLR	05:50	13:15	7h 25m	2 stops	No info	7662
2	Jet Airways	9/06/2019	Delhi	Cochin	DEL → LKO → BOM → COK	09:25	04:25 10 Jun	19h	2 stops	No info	13882
3	IndiGo	12/05/2019	Kolkata	Banglore	CCU → NAG → BLR	18:05	23:30	5h 25m	1 stop	No info	6218
4	IndiGo	01/03/2019	Banglore	New Delhi	BLR → NAG → DEL	16:50	21:35	4h 45m	1 stop	No info	13302

Os [14] `data.shape`

(10683, 11)

0s completed at 3:08 PM

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15:10 22-04-2023

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✓ [14] `data.shape`

Ds

(10683, 11)

[x]

✓ [15] #information of dataset

Ds

✓ [15] `data.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
```

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A screenshot of a Google Colab notebook titled "Untitled0.ipynb - Colaboratory". The notebook contains the following code:

```
[16]: df
```

```
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
```

```
[17]: data.isnull().sum()
```

```
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
```

```
[20]: data.dropna(inplace=True)
```

The notebook is running on RAM.

A screenshot of a Google Colab notebook titled "Untitled0.ipynb - Colaboratory". The notebook contains the following code:

```
[18]: df
```

```
Price      0
dtype: int64
```

```
[20]: data.dropna(inplace=True)
```

```
[21]: data.isnull().sum()
```

```
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
```

```
[22]: #creating list of category columns
category=['Airline','Source','Destination','Additional_Info']
category
```

```
['Airline', 'Source', 'Destination', 'Additional_Info']
```

The notebook is running on RAM.

Untitled0.ipynb - Colaboratory

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```
[22] category=['Airline','Source','Destination','Additional_Info']
category
```

[x]

```
[23] for i in category:
    print(i, data[i].unique())
Airline ['IndiGo' 'Air India' 'Jet Airways' 'SpiceJet' 'Multiple carriers' 'GoAir'
'Vistara' 'Air Asia' 'Vistara Premium economy' 'Jet Airways Business'
'Multiple carriers Premium economy' 'Trujet']
Source ['Banglore' 'Kolkata' 'Delhi' 'Chennai' 'Mumbai']
Destination ['New Delhi' 'Banglore' 'Cochin' 'Kolkata' 'Delhi' 'Hyderabad']
Additional_Info ['No info' 'In-flight meal not included' 'No check-in baggage included'
'1 Short layover' 'No Info' '1 Long layover' 'Change airports'
'Business class' 'Red-eye flight' '2 Long layover']
```

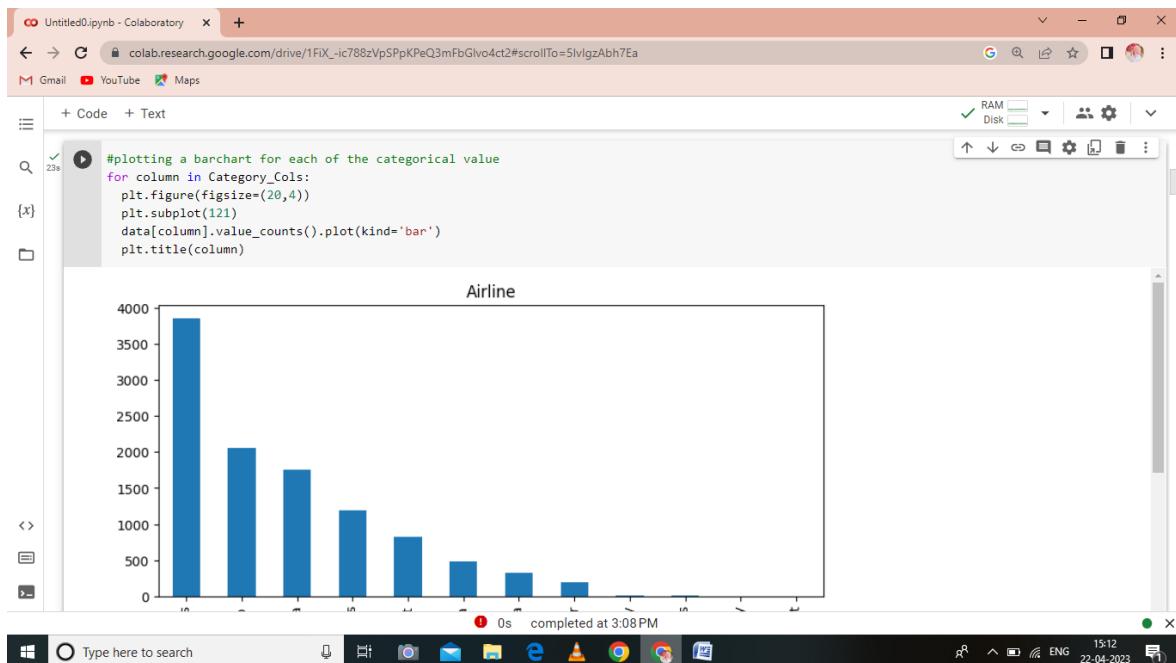
[24] Category_Cols=data.select_dtypes(include=['object']).columns
Category_Cols

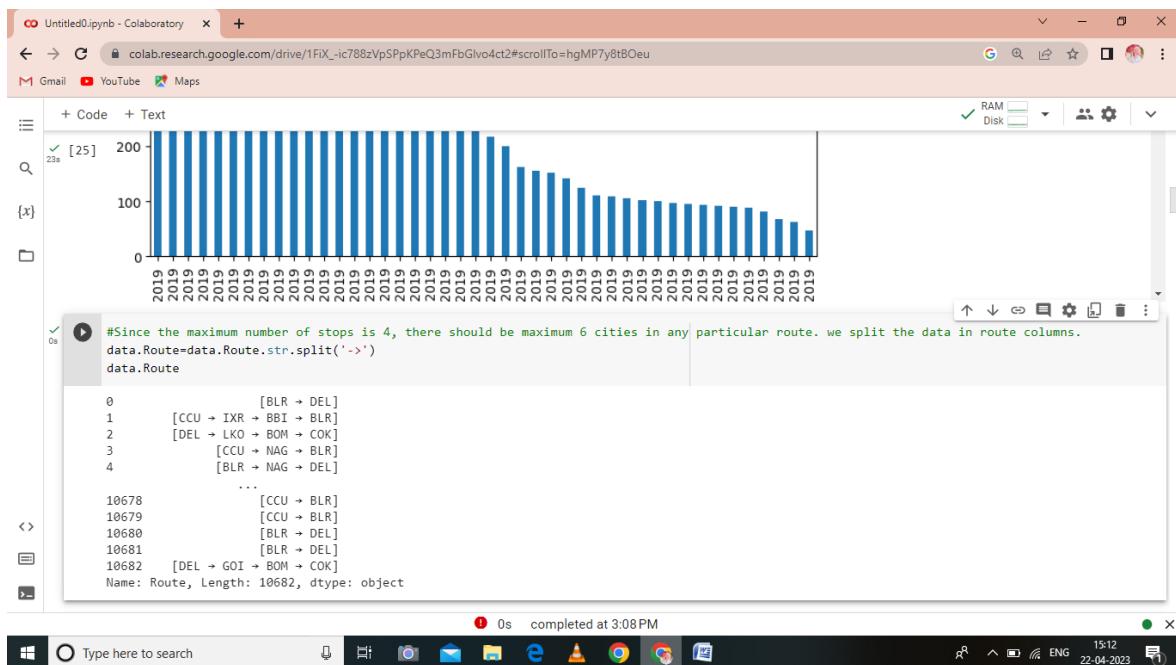
```
<> Index(['Airline', 'Date_of_Journey', 'Source', 'Destination', 'Route',
'Dep_Time', 'Arrival_Time', 'Duration', 'Total_Stops',
'Additional_Info'],
dtype='object')
```

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```
0s ✓ [26] #Since the maximum number of stops is 4, there should be maximum 6 cities in any particular route. we split the data
data.Route=data.Route.str.split('>')
data.Route
```

{x}

```
[x] 0 [BLR → DEL]
1 [CCU → IXR → BBI → BLR]
2 [DEL → LKO → BOM → COK]
3 [CCU → NAG → BLR]
4 [BLR → NAG → DEL]
...
10678 [CCU → BLR]
10679 [CCU → BLR]
10680 [BLR → DEL]
10681 [BLR → DEL]
10682 [DEL → GOI → BOM → COK]
Name: Route, Length: 10682, dtype: object
```

```
✓ [27] data['City1']=data.Route.str[0]
data['City2']=data.Route.str[1]
data['City3']=data.Route.str[2]
data['City4']=data.Route.str[3]
data['City5']=data.Route.str[4]
data['City6']=data.Route.str[5]
```

```
0s ✓ [28] #we now split the Date column to extract the 'Date','Month' and 'Year'values ,and stored them in new columns in our dataframe
data.Date_of_Journey=data.Date_of_Journey.str.split('/')
1 Os completed at 3:08PM
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```
✓ [27] data['City5']=data.Route.str[4]
data['City6']=data.Route.str[5]
```

```
{x} 0s ✓ [28] #we now split the Date column to extract the 'Date','Month' and 'Year'values ,and stored them in new columns in our dataframe
data.Date_of_Journey=data.Date_of_Journey.str.split('/')
data.Date_of_Journey
```

{x}

```
[x] 0 [24, 03, 2019]
1 [1, 05, 2019]
2 [9, 06, 2019]
3 [12, 05, 2019]
4 [01, 03, 2019]
...
10678 [9, 04, 2019]
10679 [27, 04, 2019]
10680 [27, 04, 2019]
10681 [01, 03, 2019]
10682 [9, 05, 2019]
Name: Date_of_Journey, Length: 10682, dtype: object
```

```
✓ [29] #Treating the data_column
data['Date']=data.Date_of_Journey.str[0]
data['Month']=data.Date_of_Journey.str[1]
data['Year']=data.Date_of_Journey.str[2]
```

```
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```

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The screenshot shows a Google Colab notebook titled "Untitled0.ipynb - Collaboratory". The code cell contains the following Python code:

```
+ Code + Text
[✓] [29] #Treating the data_column
      data['Date']=data.Date_of_Journey.str[0]
      data['Month']=data.Date_of_Journey.str[1]
      data['Year']=data.Date_of_Journey.str[2]

[✓] [30] #In the similiar manner, we split the Dep_Time column, and create separate columns for departure hours and minutes
      data.Dep_Time=data.Dep_Time.str.split(':')

[✓] [31] data['Dep_Time_Hour']=data.Dep_Time.str[0]
      data['Dep_Time_Mins']=data.Dep_Time.str[1]

[✓] [32] data.Arrival_Time=data.Arrival_Time.str.split('`')

[✓] [33] data['Arrival_date']=data.Arrival_Time.str[1]
      data['Time_of_Arrival']=data.Arrival_Time.str[0]

[✓] [34] data['Time_of_Arrival']=data.Time_of_Arrival.str.split('`')
      data['Arrival_Time_Hour']=data.Time_of_Arrival.str[0]
      data['Arrival_Time_Mins']=data.Time_of_Arrival.str[1]
```

The status bar at the bottom indicates "0s completed at 3:08 PM".

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```
[36] #Next, we divide the 'Duration' column to 'Travel_hours' and 'Travel_mins'
[36] data.Duration=data.Duration.str.split('')

{x} [37] data['Travel_Hours']=data.Duration.str[0]
      data['Travel_Hours']=data['Travel_Hours'].str.split('h')
      data['Travel_Hours']=data['Travel_Hours'].str[0]
      data.Travel_Hours=data.Travel_Hours
      data['Travel_Mins']=data.Duration.str[1]

      data.Travel_Mins=data.Travel_Mins.str.split('m')
      data.Travel_Mins=data.Travel_Mins.str[0]

[38] #we also treat the 'Total_stops' column, and replace non-stop flights with 0 value and extract the integer part of the 'Total_Stops'
[38] data.Total_Stops.replace('non_stop',0,inplace=True)
      data.Total_Stops=data.Total_Stops.str.split('')
      data.Total_Stops=data.Total_Stops.str[0]

[39] data.Additional_Info.unique()
```

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```
[38] data.isnull().sum()
```

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```
✓ [41] Dep_Time      0
  ⏷ [41] Arrival_Time 0
    Duration      0
    Total_Stops   0
    Additional_Info 0
    Price         0
    City1         0
    City2         10682
    City3         10682
    City4         10682
    City5         10682
    City6         10682
    Date          0
    Month         0
    Year          0
    Dep_Time_Hour 0
    Dep_Time_Mins 0
    Arrival_date  0
    Time_of_Arrival 0
    Arrival_Time_Hour 0
    Arrival_Time_Mins 10682
    Travel_Hours  0
    Travel_Mins   0
dtype: int64
```

#we also drop some columns like 'city6' and 'city5' since majority of the data in these columns was NaN(null)
data.drop(['City4','City5','City6'],axis=1,inplace=True)

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```
✓ [41] #we also drop some columns like 'city6' and 'city5' since majority of the data in these columns was NaN(null)
  ⏷ [41] data.drop(['City4','City5','City6'],axis=1,inplace=True)
```

{x} [42] data.drop(['Date_of_Journey','Route','Dep_Time','Arrival_Time','Duration'],axis=1, inplace=True)
 ⏷ [42] data.drop(['Time_of_Arrival'],axis=1,inplace=True)

KeyError Traceback (most recent call last)
<ipython-input-51-259b7affb9b2> in <cell line: 1>()
----> 1 data.drop(['Date_of_Journey','Route','Dep_Time','Arrival_Time','Duration'],axis=1, inplace=True)
 2 data.drop(['Time_of_Arrival'],axis=1,inplace=True)

+ 5 frames -----
/usr/local/lib/python3.9/dist-packages/pandas/core/indexes/base.py in drop(self, labels, errors)
 6932 if mask.any():
 6933 if errors != "ignore":
-> 6934 raise KeyError(f"list({labels[mask]}) not found in axis")
 6935 indexer = indexer[~mask]
 6936 return self.delete(indexer)

KeyError: "[‘Date_of_Journey’, ‘Route’, ‘Dep_Time’, ‘Arrival_Time’, ‘Duration’] not found in axis"

SEARCH STACK OVERFLOW

[61] #Checking Null values

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[51] → 6934 raise KeyError(f"list(labels[mask]) not found in axis")
6935 indexer = indexer[~mask]
6936 return self.delete(indexer)

{x} KeyError: "['Date_of_Journey', 'Route', 'Dep_Time', 'Arrival_Time', 'Duration'] not found in axis"

SEARCH STACK OVERFLOW

[61] #Checking Null values
data.isnull.sum()

AttributeError Traceback (most recent call last)
<ipython-input-61-9394018b16a3> in <cell line: 2>()
 1 #Checking Null values
----> 2 data.isnull.sum()

AttributeError: 'function' object has no attribute 'sum'

SEARCH STACK OVERFLOW

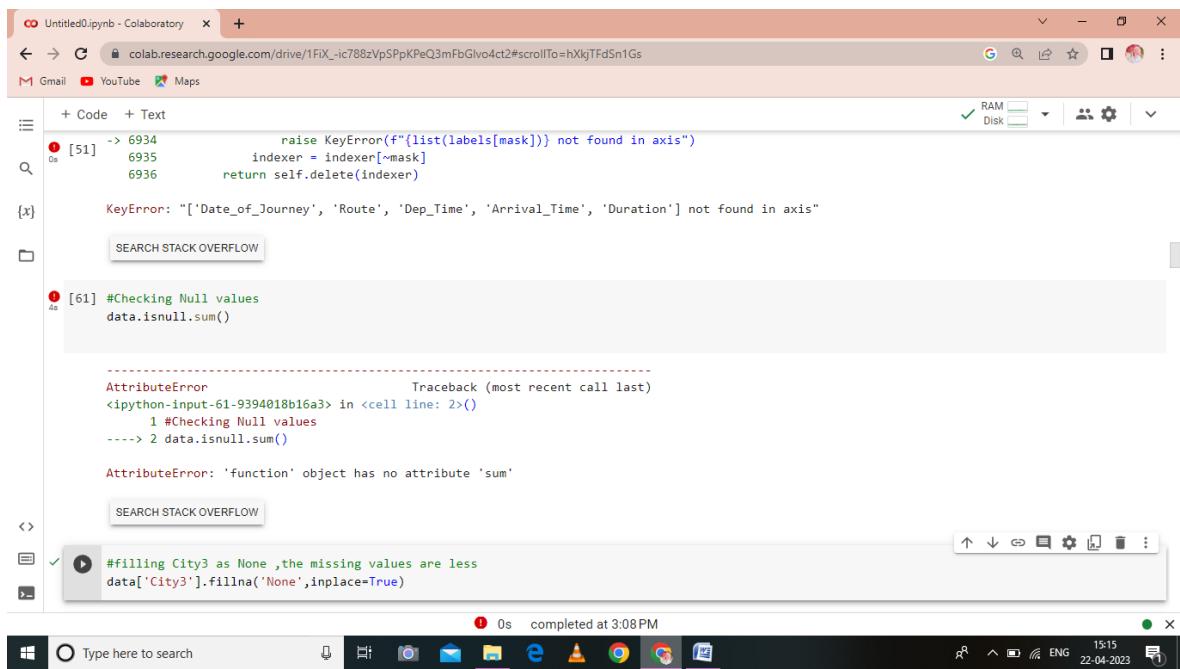
#filling City3 as None ,the missing values are less
data['City3'].fillna('None',inplace=True)

0s completed at 3:08PM

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15:15 22-04-2023

A screenshot of a Google Colab notebook titled 'Untitled0.ipynb'. The notebook contains two code cells. The first cell, cell 51, shows an error where it tries to access a non-existent axis ('Date_of_Journey', 'Route', etc.). The second cell, cell 61, attempts to use the 'sum()' method on a pandas Series, which fails because it's a function object. Below the notebook, a system tray shows the date and time as 22-04-2023 15:15. The taskbar also includes icons for file operations, search, and various applications like File Explorer, Camera, Mail, and Edge.

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✓ [58] #filling City3 as None ,the missing values are less
data['City3'].fillna('None',inplace=True)

[x] ✓ [59] #filling Arrival_Date as departure Date
data['Arrival_date'].fillna(data['Date'],inplace=True)

✓ [60] #filling Travel_Mins as zero(0)
data['Travel_Mins'].fillna(0,inplace=True)

Os [65] #Changing the numerical columns from object to int
#data.Total_Stops=data.Total_Stops.astype('int64')
data.Date=data.Date.astype('int64')
data.Month=data.Month.astype('int64')
data.Year=data.Year.astype('int64')
data.Dep_Time_Hour=data.Dep_Time_Hour.astype('int64')
data.Dep_Time_Hour=data.Dep_Time_Hour.astype('int64')
data.Dep_Time_Mins=data.Dep_Time_Mins.astype('int64')
data.Arrival_date=data.Arrival_date.astype('int64')
data.Arrival_Time_Hour=data.Arrival_Time_Hour.astype('int64')
data.Arrival_Time_Mins=data.Arrival_Time_Mins.astype('int64')
#data.Travel_Hours=data.Travel_Hours.astype('int64')
data.Travel_Mins=data.Travel_Mins.astype('int64')

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✓ [0] data.info()

<class 'pandas.core.frame.DataFrame'>
Int64Index: 10682 entries, 0 to 10682
Data columns (total 20 columns):
 # Column Non-Null Count Dtype

 0 Airline 10682 non-null object
 1 Source 10682 non-null object
 2 Destination 10682 non-null object
 3 Total_Stops 10682 non-null object
 4 Additional_Info 10682 non-null object
 5 Price 10682 non-null int64
 6 City1 10682 non-null object
 7 City2 0 non-null float64
 8 City3 10682 non-null object
 9 Date 10682 non-null int64
 10 Month 10682 non-null int64
 11 Year 10682 non-null int64
 12 Dep_Time_Hour 10682 non-null int64
 13 Dep_Time_Mins 10682 non-null int64
 14 Arrival_date 10682 non-null int64
 15 Time_of_Arrival 10682 non-null object
 16 Arrival_Time_Hour 10682 non-null object
 17 Arrival_Time_Mins 0 non-null float64
 18 Travel_Hours 10682 non-null object
 19 Travel_Mins 10682 non-null object
 dtypes: float64(2), int64(7), object(11)
 memory usage: 1.7+ MB

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The screenshot shows a Jupyter Notebook interface in Google Colab. The code cell [66] displays the structure of a DataFrame:

```
+ Code + Text
[66] 4 Additional_Info    10682 non-null object
      5 Price          10682 non-null int64
      6 City1         10682 non-null object
      7 City2          0 non-null float64
      8 City3         10682 non-null object
      9 Date          10682 non-null int64
     10 Month         10682 non-null int64
     11 Year          10682 non-null int64
     12 Dep_Time_Hour 10682 non-null int64
     13 Dep_Time_Mins 10682 non-null int64
     14 Arrival_date  10682 non-null int64
     15 Time_of_Arrival 10682 non-null object
     16 Arrival_Time_Hour 10682 non-null object
     17 Arrival_Time_Mins 0 non-null float64
     18 Travel_Hours   10682 non-null object
     19 Travel_Mins    10682 non-null object
dtypes: float64(2), int64(7), object(11)
memory usage: 1.7+ MB
```

The next cell [67] contains the following code:

```
data[data['Travel_Hours']=='5m']
```

The output of this cell shows a subset of the DataFrame where the 'Travel_Hours' column is equal to '5m'. The columns listed are Airline, Source, Destination, Total_Stops, Additional_Info, Price, City1, City2, City3, Date, Month, Year, Dep_Time_Hour, Dep_Time_Mins, Arrival_...

```
Airline  Source  Destination  Total_Stops  Additional_Info  Price  City1  City2  City3  Date  Month  Year  Dep_Time_Hour  Dep_Time_Mins  Arrival_...
```

The final cell [68] contains the command:

```
[ ] data.drop(index=6474,inplace=True,axis=0)
```

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[68] `data[data['Travel_Hours']=='5m']`

{x} `Airline Source Destination Total_Stops Additional_Info Price City1 City2 City3 Date Month Year Dep_Time_Hour Dep_Time_Mins Arrival_City`

[] `data.drop(index=6474,inplace=True,axis=0)`

data.Travel_Hours=data.Travel_Hours.astype('int64')

AttributeError Traceback (most recent call last)
<ipython-input-227-7bece7b89a9b> in <cell line: 1>()
----> 1 data.Travel_Hours=data.Travel_Hours.astype('int64')

/usr/local/lib/python3.9/dist-packages/pandas/core/generic.py in __getattr__(self, name)
 5900):
 5901 return self[name]
-> 5902 return object.__getattribute__(self, name)
 5903
 5904 def __setattr__(self, name: str, value) -> None:

AttributeError: 'DataFrame' object has no attribute 'Travel_Hours'

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#plotting Countplots for categorical Data

import seaborn as sns
c=1
plt.figure(figsize=(20,45))

for i in categorical:
 plt.subplot(6,3,c)
 sns.countplot(data[i])
 plt.xticks(rotation=90)
 plt.tight_layout(pad=3.0)
 c=c+1

plt.show()

KeyError Traceback (most recent call last)
<ipython-input-380-1c788zVpSPpKPeQ3mFbGlvo4ct2> in <cell line: 1>()
 3801 try:
-> 3802 return self._engine.get_loc(casted_key)
 3803 except KeyError as err:

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()

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```
[ ] 2000 | [ ] 2000 | [ ] 2000 |
```

{x} 0 2000 0 2000 0 2000

1.0 |

0s [] #Distribution of 'PRICE' column
plt.figure(figsize=(15,8))
sns.distplot(data.price)

NameError Traceback (most recent call last)
<ipython-input-71-4a046ee2be08> in <cell line: 3>()
 1 #Distribution of 'PRICE' column
 2 plt.figure(figsize=(15,8))
----> 3 sns.distplot(data.price)

NameError: name 'sns' is not defined

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<Figure size 1500x800 with 0 Axes>

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```
[ ] data.columns
```

{x} Index(['Airline', 'Source', 'Destination', 'Date', 'Month', 'Year',
 'Dep_Time_Hour', 'Dep_Time_Mins', 'Arrival_date', 'Arrival_Time_Hour',
 'Arrival_Time_Mins', 'Price'],
 dtype='object')

0s [73] #Checking the relation of price with categorical data
import seaborn as sns
c=1

for i in categorical:
 plt.figure(figsize = (10,20))

 plt.subplot(6,3,c)

 sns.scatterplot(x=data[i],y=data['Price'])
 plt.xticks(rotation=90)
 #plt.tight_layout(pad=3.0)
 c+=1
 plt.show

NameError Traceback (most recent call last)
<ipython-input-73-ac294d5b1307> in <cell line: 5>()

0s completed at 3:08PM

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15:17 22-04-2023

Untitled0.ipynb - Colaboratory

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Gmail YouTube Maps

```
+ Code + Text
```

Os #Checking the relation of price with categorical data
import seaborn as sns
c=1
{x}
for i in categorical:
 plt.figure(figsize = (10,20))

 plt.subplot(6,3,c)

 sns.scatterplot(x=data[i],y=data.price)
 plt.xticks(rotation=90)
 #plt.tight_layout(pad=3.0)
 c+=1
 plt.show

NameError Traceback (most recent call last)
<ipython-input-73-ac294d5b1307> in <cell line: 5>()
 3 c=1
 4
----> 5 for i in categorical:
 6 plt.figure(figsize = (10,20))
 7

NameError: name 'categorical' is not defined

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```
+ Code + Text
```

Os #checking flight with high prices
data[data.price>50000]
data.head()
pd.set_option('display.max_columns',25)

AttributeError Traceback (most recent call last)
<ipython-input-75-f3885cb20118> in <cell line: 2>()
 1 #checking flight with high prices
---> 2 data[data.price>50000]
 3 data.head()
 4 pd.set_option('display.max_columns',25)

/usr/local/lib/python3.9/dist-packages/pandas/core/generic.py in __getattr__(self, name)
 5900):
 5901 return self[name]
-> 5902 return object.__getattribute__(self, name)
 5903
 5904 def __setattr__(self, name: str, value) -> None:

AttributeError: 'DataFrame' object has no attribute 'price'

SEARCH STACK OVERFLOW

+ Code + Text

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Untitled0.ipynb - Colaboratory +

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data.head()

	Airline	Source	Destination	Total_Stops	Additional_Info	Price	City1	City2	City3	Date	Month	Year	Dep_Time_Hour	Dep_Time_Mins	Arriva
0	IndiGo	Banglore	New Delhi	No info	3897	→ BLR → DEL	NaN	None	24	3	2019	22	20		
1	Air India	Kolkata	Banglore	No info	7662	→ CCU → IXR → BBI → BLR	NaN	None	1	5	2019	5	50		
2	Jet Airways	Delhi	Cochin	No info	13882	→ DEL → LKO → BOM → COK	NaN	None	9	6	2019	9	25		
3	IndiGo	Kolkata	Banglore	No info	6218	→ CCU → NAG	NaN	None	12	5	2019	18	5		

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15:18 22-04-2023

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+ Code + Text

[76]

0s

BLR
→
DEL
→
LKO
→
BOM
→
COK

2 Jet Airways Delhi Cochin No info 13882 NaN None 9 6 2019 9 25

CCU
→
BLR

3 IndiGo Kolkata Banglore No info 6218 NAG NaN None 12 5 2019 18 5

BLR
→
DEL

4 IndiGo Banglore New Delhi No info 13302 NAG NaN None 1 3 2019 16 50

data['Year'].max()

'2019'

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Windows Start button

File Home Insert Cell Kernel Help

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15:18 22-04-2023



```

+ Code + Text
data.info()

<class 'pandas.core.frame.DataFrame'>
Int64Index: 10682 entries, 0 to 10682
Data columns (total 20 columns):
 #   Column      Non-Null Count  Dtype  
--- 
 0   Airline      10682 non-null   object 
 1   Source       10682 non-null   object 
 2   Destination  10682 non-null   object 
 3   Total_Stops  10682 non-null   object 
 4   Additional_Info 10682 non-null   object 
 5   Price        10682 non-null   int64  
 6   City1        10682 non-null   object 
 7   City2        0 non-null      float64
 8   City3        10682 non-null   object 
 9   Date         10682 non-null   int64  
 10  Month        10682 non-null   int64  
 11  Year         10682 non-null   int64  
 12  Dep_Time_Hour 10682 non-null   int64  
 13  Dep_Time_Mins 10682 non-null   int64  
 14  Arrival_date 10682 non-null   int64  
 15  Time_of_Arrival 10682 non-null   object 
 16  Arrival_Time_Hour 10682 non-null   object 
 17  Arrival_Time_Mins 0 non-null      float64
 18  Travel_Hours 10682 non-null   object 
 19  Travel_Mins   10682 non-null   object 

dtypes: float64(2), int64(7), object(11)

```

Untitled0.ipynb - Colaboratory

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data

	Airline	Source	Destination	Total_Stops	Additional_Info	Price	City1	City2	City3	Date	Month	Year	Dep_Time_Hour	Dep_Time_Mins
0	IndiGo	Banglore	New Delhi		No info	3897	BLR → DEL	NaN	None	24	3	2019	22	20
1	Air India	Kolkata	Banglore		No info	7662	CCU → IXR → BBI → BLR	NaN	None	1	5	2019	5	50
2	Jet Airways	Delhi	Cochin		No info	13882	DEL → LKO → BOM → COK	NaN	None	9	6	2019	9	25
3	IndiGo	Kolkata	Banglore		No info	6218	CCU → NAG	NaN	None	12	5	2019	18	5

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Untitled0.ipynb - Colaboratory

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+ Code + Text

```
#Checking Relation price with numerical values
c=1

{x}
for i in numerical:
    plt.figure(figsize=(10,20))
    plt.subplot(6,3,c)
    sns.scatterplot(x=data[i],y=data.price)
    plt.xticks(rotation=90)
    #plt.tight_layout(pad=3.0)
    c+=1
    plt.show
```

NameError: name 'numerical' is not defined

SEARCH STACK OVERFLOW

0s completed at 3:08 PM

Type here to search

The screenshot shows a Google Colab notebook titled "Untitled0.ipynb - Colaboratory". The code cell contains the following Python code:

```
#Detecting the Outliers
import seaborn as sns
sns.boxplot(data['price'])
```

An error occurred at line 3803, causing a `KeyError` for the key 'price'. The stack trace shows the error originated from the `pandas/_libs/hashtable_class_helper.pxi` file in the `get_loc` method of the `pandas.core.indexes.base` module.

```
KeyError                                     Traceback (most recent call last)
/usr/local/lib/python3.9/dist-packages/pandas/core/indexes/base.py in get_loc(self, key, method, tolerance)
    3801         try:
    3802             return self._engine.get_loc(casted_key)
    3803         except KeyError as err:
    3804             raise KeyError(key) from err
    3805         except TypeError:
```

The notebook interface includes a toolbar with "Code" and "Text" buttons, a status bar showing "0s completed at 3:08 PM", and a system tray at the bottom right showing battery level, signal strength, and date/time.

The screenshot shows a Jupyter Notebook interface running in Google Colab. The code cell at the top contains the following Python code:

```
from sklearn.preprocessing import LabelEncoder
le=LabelEncoder()
```

An error has occurred, and the stack trace is displayed below the code:

```
0s [80] 4 frames
pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()
{x} pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()
KeyError: 'price'

The above exception was the direct cause of the following exception:

KeyError
Traceback (most recent call last)
/usr/local/lib/python3.9/dist-packages/pandas/core/indexes/base.py in get_loc(self, key, method, tolerance)
    3802         return self._engine.get_loc(casted_key)
    3803     except KeyError as err:
-> 3804         raise KeyError(key) from err
    3805     except TypeError:
    3806         # If we have a listlike key, _check_indexing_error will raise
```

A button labeled "SEARCH STACK OVERFLOW" is visible in the center of the error message.

Untitled0.ipynb - Colaboratory +

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+ Code + Text

[80] **KeyError: 'price'**

[x]

```
[ ] from sklearn.preprocessing import LabelEncoder
le=LabelEncoder()
```

[81] **data.Airline=le.fit_transform(data.Airline)**
data.Source=le.fit_transform(data.Source)
data.Destination=le.fit_transform(data.Destination)
data.Total_Stops=le.fit_transform(data.Total_Stops)
data.City1=>le.fit_transform(data.City1->)
data.City2=>le.fit_transform(data.City2)
data.City3=>le.fit_transform(data.City3)
data.Additional_Info=le.fit_transform(data.Additional_Info)
data.head()

File "<ipython-input-82-5aa9df7c1860>", line 5
 data.City1->=le.fit_transform(data.City1->
 ^
SyntaxError: invalid syntax

SEARCH STACK OVERFLOW

RAM Disk

0s completed at 3:08 PM

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15:20 22-04-2023

Untitled0.ipynb - Colaboratory +

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[82] **data.head()**

Airline Source Destination Total_Stops Additional_Info Price City1 City2 City3 Date Month Year Dep_Time_Hour Dep_Time_Mins Arrival

	Airline	Source	Destination	Total_Stops	Additional_Info	Price	City1	City2	City3	Date	Month	Year	Dep_Time_Hour	Dep_Time_Mins	Arrival
0	IndiGo	Banglore	New Delhi		No info	3897	BLR → DEL	NaN	None	24	3	2019	22	20	
1	Air India	Kolkata	Banglore		No info	7662	CCU → IXR → BBI → BLR	NaN	None	1	5	2019	5	50	
2	Jet Airways	Delhi	Cochin		No info	13882	DEL → LKO → BOM → COK	NaN	None	9	6	2019	9	25	
3	IndiGo	Kolkata	Banglore		No info	6218	CCU → NAG →	NaN	None	12	5	2019	18	5	

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15:20 22-04-2023

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RAM Disk

Code cell

0s [83] 3 IndiGo Kolkata Banglore No info 6218 NAG → NaN None 12 5 2019 18 5
→ BLR
BLR →
4 IndiGo Banglore New Delhi No info 13302 NAG → NaN None 1 3 2019 16 50
→ DEL

data=data[['Airline','Source','Destination','Date','Month','Year','Dep_Time_Hour','Dep_Time_Mins','Arrival_date','Arrival_Time_Hour','Arrival_Time_Mins','Price']]
data.head()

	Airline	Source	Destination	Date	Month	Year	Dep_Time_Hour	Dep_Time_Mins	Arrival_date	Arrival_Time_Hour	Arrival_Time_Mins	Price
0	3	0		5	24	03	2019		22	20	0	Nan 3897
1	1	3		0	1	05	2019		05	50	1	Nan 7662
2	4	2		1	9	06	2019		09	25	0	Nan 13882
3	3	3		0	12	05	2019		18	05	2	Nan 6218
4	3	0		5	01	03	2019		16	50	2	Nan 13302

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15:20 22-04-2023

Untitled0.ipynb - Colaboratory

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RAM Disk

Code cell

[]

	Airline	Source	Destination	Date	Month	Year	Dep_Time_Hour	Dep_Time_Mins	Arrival_date	Arrival_Time_Hour	Arrival_Time_Mins	Price
0	3	0		5	24	03	2019		22	20	0	Nan 3897
1	1	3		0	1	05	2019		05	50	1	Nan 7662
2	4	2		1	9	06	2019		09	25	0	Nan 13882
3	3	3		0	12	05	2019		18	05	2	Nan 6218
4	3	0		5	01	03	2019		16	50	2	Nan 13302

0s []

```
y=data1['Price']
x=data1.drop(columns=['Price'],axis=1)
```

NameError Traceback (most recent call last)
<ipython-input-88-4bf852500dd5> in <cell line: 1>()
----> 1 y=data1['Price']
 2 x=data1.drop(columns=['Price'],axis=1)

NameError: name 'data1' is not defined

SEARCH STACK OVERFLOW

0s completed at 3:08PM

Type here to search

15:20 22-04-2023

The screenshot shows a Jupyter Notebook interface within Google Colab. The top cell contains the following code:

```
[89]: from sklearn.model_selection import train_test_split  
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2,random_state=42)
```

An error message is displayed below the code:

```
File "<ipython-input-89-2363079cfedc>", line 2  
    x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2,random-state=42)  
                                         ^  
SyntaxError: expression cannot contain assignment, perhaps you meant "=="?
```

The bottom cell contains the following code:

```
x_train.head()
```

A NameError traceback is shown:

```
NameError: name 'x_train' is not defined
```

Below the code cells are two search bars labeled "SEARCH STACK OVERFLOW". The bottom search bar has a red circular icon with a white dot.

Untitled0.ipynb - Colaboratory

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```
from sklearn.metrics import r2_score,mean_absolute_error,mean_squared_error
for i in [rfr,gb,ad]:
    i.fit(x_train,y_train)
    y_pred=i.predict(x_test)
    test_score=r2_score(y_test,y_pred)
    train_score=r2_score(y_train,i.predict(x_train))
    if abs(train_score-test_score)<=0.2:
        print(i)
        print("R2 score is",r2_score(y_test,y_pred))
        print("R2 for train data",r2_score(y_train,i.predict(x_train)))
        print("Mean Absolute Error is",mean_absolute_error(y_pred,y_test))
        print("Mean squared Error is",mean_squared_error(y_pred,y_test))
        print("Root Mean Squared Error is",mean_absolute_error(y_pred,y_test,squared=False))
```

File "<ipython-input-93-614a9ab08cf1>", line 11
print("Mean Absolute Error is",mean_absolute_error(y_pred,y_test))
^
SyntaxError: invalid syntax

SEARCH STACK OVERFLOW

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15:21 22-04-2023

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```
model=keras.Sequential()
model.add(Dense(7,activation='relu',input_dim=11))

model.add(Dense(7,activation='relu'))

model.add(Dense(1,activation='linear'))

model.summary()
```

Model: "sequential_1"

Layer (type)	Output Shape	Param #
dense_1 (Dense)	(None, 7)	84
dense_2 (Dense)	(None, 7)	56
dense_3 (Dense)	(None, 1)	8

Total params: 148
Trainable params: 148
Non-trainable params: 0

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15:21 22-04-2023

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```
total params: 148
[97] Trainable params: 148
Non-trainable params: 0
```

{x}

```
[107] model.compile(loss='mse',optimizer='rmsprop',metrics=['mae'])

File "<ipython-input-107-39d4500bbb91>", line 1
    model.compile(loss='mse',optimizer='rmsprop',metrics=['mae'])
                                         ^
SyntaxError: unexpected EOF while parsing
```

SEARCH STACK OVERFLOW

```
0s [108] model.fit(x_train,y_train,batch_size=20, epochs=10)

-----
NameError: Traceback (most recent call last)
<ipython-input-108-04fc75443784> in <cell line: 1>()
      1 model.fit(x_train,y_train,batch_size=20, epochs=10)

NameError: name 'x_train' is not defined
```

SEARCH STACK OVERFLOW

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```
+ Code + Text
```

```
1s
  from sklearn.model_selection import cross_val_score
  for i in range(2,5):
    cv=cross_val_score(rfr,x,y,cv=i)
    print(rfr.cv.mean())

-----
```

NameError Traceback (most recent call last)
<ipython-input-110-a7292d5d87f> in <cell line: 2>()
 1 from sklearn.model_selection import cross_val_score
 2 for i in range(2,5):
----> 3 cv=cross_val_score(rfr,x,y,cv=i)
 4 print(rfr.cv.mean())

NameError: name 'x' is not defined

SEARCH STACK OVERFLOW

```
Os [114] from sklearn.model_selection import RandomizeSearchCV
```

```
ImportError Traceback (most recent call last)
<ipython-input-114-0f912b68bb26> in <cell line: 1>()
----> 1 from sklearn.model_selection import RandomizeSearchCV

ImportError: cannot import name 'RandomizeSearchCV' from 'sklearn.model_selection' (/usr/local/lib/python3.9/dist-
```

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Untitled0.ipynb - Colaboratory

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```
+ Code + Text
```

```
1s
  SEARCH STACK OVERFLOW
```

```
{x} Os [114] from sklearn.model_selection import RandomizeSearchCV
```

```
ImportError Traceback (most recent call last)
<ipython-input-114-0f912b68bb26> in <cell line: 1>()
----> 1 from sklearn.model_selection import RandomizeSearchCV

ImportError: cannot import name 'RandomizeSearchCV' from 'sklearn.model_selection' (/usr/local/lib/python3.9/dist-
/packages/sklearn/model_selection/_init__.py)

-----
```

NOTE: If your import is failing due to a missing package, you can
manually install dependencies using either !pip or !apt.

To view examples of installing some common dependencies, click the
"Open Examples" button below.

```
OPEN EXAMPLES SEARCH STACK OVERFLOW
```

```
paran_grid={'n_estimators':[10,30,50,70,100], 'max_depth':[None,1,2,3], 'max_features':['auto','sqrt']}
```

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```
rfr=RandomForestRegressor()
rf_res=RandomizedSearchCV(estimator=rfr,paran_distributions=paran_grid,cv=3,verbose=2,n_jobs=-1)

rf_res.fit(x_train,y_train)
```

NameError Traceback (most recent call last)
ipython-input-119-5feae54f5967 in <cell line: 2>()
1 rfr=RandomForestRegressor()
2 rf_res=RandomizedSearchCV(estimator=rfr,paran_distributions=paran_grid,cv=3,verbose=2,n_jobs=-1)
3
4 rf_res.fit(x_train,y_train)

NameError: name 'RandomizedSearchCV' is not defined

SEARCH STACK OVERFLOW

```
[124] gb_OradientBoostingRegressor()
gb_res=RandomizedSearchCV(estimator=gb,paran_distribution=paran_grid,cv=3,verbose=2,n_jobs=-1)

gb_res.fit(x_train,y_train)
```

NameError Traceback (most recent call last)
ipython-input-124-99b041d6e9eb in <cell line: 1>()

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```
2 gb_res=RandomizedSearchCV(estimator=gb,paran_distribution=paran_grid,cv=3,verbose=2,n_jobs=-1)
3
4 gb_res.fit(x_train,y_train)
```

NameError: name 'gb_OradientBoostingRegressor' is not defined

SEARCH STACK OVERFLOW

```
from sklearn.model_selection import cross_val_score
for i in range(2,5):
    cv=cross_val_score(gb,x,y,cv=i)
    print(rfr, cv.mean())

NameError Traceback (most recent call last)
ipython-input-126-62c4fa19092c in <cell line: 2>()
1 from sklearn.model_selection import cross_val_score
2 for i in range(2,5):
----> 3     cv=cross_val_score(gb,x,y,cv=i)
4     print(rfr, cv.mean())

NameError: name 'x' is not defined
```

SEARCH STACK OVERFLOW

0s completed at 3:08PM

```
[127] predicted_values=pd.DataFrame({'Actual':y_test,'predicted':y_pred})  
[x]  
NameError: name 'y_test' is not defined  
[128] predicted_values=pd.DataFrame({'Actual':y_test,'predicted':y_pred})  
[y]  
NameError: name 'predicted_values' is not defined
```

Untitled0.ipynb - Colaboratory

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```
import pickle
pickle.dump(rfr,open('model1.pk1','wb'))
```

[x] [] #Detecting the Outliers
import seaborn as sns
sns.boxplot(data['price'])

KeyError Traceback (most recent call last)
/usr/local/lib/python3.9/dist-packages/pandas/core/indexes/base.py in get_loc(self, key, method, tolerance)
3801 try:
-> 3802 return self._engine.get_loc(casted_key)
3803 except KeyError as err:

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()

KeyError: 'price'

<> The above exception was the direct cause of the following exception:

KeyError Traceback (most recent call last)
/usr/local/lib/python3.9/dist-packages/pandas/core/indexes/base.py in get_loc(self, key, method, tolerance)
3801 try:
-> 3802 return self._engine.get_loc(casted_key)
3803 except KeyError as err:

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()

KeyError: 'price'

0s completed at 3:08PM

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Untitled0.ipynb - Colaboratory

colab.research.google.com/drive/1FiX_-ic788zVpSPpKPeQ3mFbGivo4ct2#scrollTo=pGvsKD4NSdHD

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```
y=data['price']
x=data.drop(columns=['price'],axis=1)
```

[x] -----
KeyError Traceback (most recent call last)
/usr/local/lib/python3.9/dist-packages/pandas/core/indexes/base.py in get_loc(self, key, method, tolerance)
3801 try:
-> 3802 return self._engine.get_loc(casted_key)
3803 except KeyError as err:

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()

KeyError: 'price'

<> The above exception was the direct cause of the following exception:

KeyError Traceback (most recent call last)
/usr/local/lib/python3.9/dist-packages/pandas/core/indexes/base.py in get_loc(self, key, method, tolerance)
3802 return self._engine.get_loc(casted_key)
3803 except KeyError as err:
-> 3804 raise KeyError(key) from err
3805 except TypeError:
3806 # If we have a listlike key, check indexing_error will raise

0s completed at 3:08PM

Type here to search

RAM Disk

The screenshot shows a Google Colab notebook titled "Untitled0.ipynb - Colaboratory". The code cell contains the following Python code:

```
[ ] KeyError: 'price'

The above exception was the direct cause of the following exception:
{x}
KeyError
Traceback (most recent call last)
/usr/local/lib/python3.9/dist-packages/pandas/core/indexes/base.py in get_loc(self, key, method, tolerance)
    3802         return self._engine.get_loc(casted_key)
    3803     except KeyError as err:
-> 3804         raise KeyError(key) from err
    3805     except TypeError:
    3806         # If we have a listlike key, _check_indexing_error will raise

KeyError: 'price'

SEARCH STACK OVERFLOW
```

Below the code cell, there is a comment block:

```
[ ] ###Scaling the Data
from sklearn.preprocessing import StandardScaler
ss=StandardScaler()
```

The cell status bar indicates "0s completed at 3:08PM". At the bottom of the screen, the Windows taskbar shows various icons and the system tray displays the date and time as "22-04-2023 15:24".

A screenshot of a Google Colab notebook titled "Untitled0.ipynb - Colaboratory". The code cell contains the following Python code:

```
data1=ss.fit_transform(data)
data1=pd.DataFrame(data1,columns=data.columns)
data.head()

[130] import pickle
pickle.dump(rfr,open('model1.pkl','wb'))

[131] from flask import Flask,render_template, request
import numpy as np
import pickle

[133] model=pickle.load(open(r"model1.pkl",'rb'))
```

The output shows a `FileNotFoundError`:

```
-----  
FileNotFoundError          Traceback (most recent call last)  
<ipython-input-133-6acca227eed0> in <cell line: 1>()  
----> 1 model=pickle.load(open(r"model.pkl",'rb'))
```

Below the code cell, there is a search bar with "Type here to search" and a toolbar with various icons. The status bar at the bottom indicates "0s completed at 3:08 PM".

A screenshot of a Google Colab notebook titled "Untitled0.ipynb - Colaboratory". The code cell contains the following Python code:

```
from flask import Flask,render_template, request
import numpy as np
import pickle

[133] model=pickle.load(open(r"model1.pkl",'rb'))
```

The output shows a `FileNotFoundError`:

```
-----  
FileNotFoundError          Traceback (most recent call last)  
<ipython-input-133-6acca227eed0> in <cell line: 1>()  
----> 1 model=pickle.load(open(r"model.pkl",'rb'))
```

Below the code cell, there is a message: "FileNotFoundError: [Errno 2] No such file or directory: 'model.pkl'" followed by a "SEARCH STACK OVERFLOW" button.

At the bottom of the code cell, there is another code block:

```
[134] def home():
    return render_template('home.html')

@app.route("/predict")
def home1():
    return render_template('predict.html')
```

Below this block, there is a search bar with "Type here to search" and a toolbar with various icons. The status bar at the bottom indicates "0s completed at 3:08 PM".

The screenshot shows a Jupyter Notebook cell with the following Python code:

```
@app.route("/predict")
def home1():
    return render_template('predict.html')

[139] @app.route("/pred",methods=['post','GET'])
def predict():
    x=[[int(x) for x in request.form.values()]]
    print(x)

    x=np.array(x)
    print(x.shape)

    print(x)
    pred=model.predict(x)
    print(pred)
    return render_template('submit.html',prediction_text=pred)

File "< tokenize>", line 4
    print(x)
    ^
IndentationError: unindent does not match any outer indentation level
```

The code is intended to handle both GET and POST requests. It prints the input values, converts them into a NumPy array, and then uses a model to make a prediction. The error occurs at line 4, where the final `print(x)` statement is not properly indented relative to the previous lines.

The screenshot shows a Jupyter Notebook cell with the same Python code as the first one, but with a different error message:

```
@app.route("/predict")
def home1():
    return render_template('predict.html')

[139] @app.route("/pred",methods=['post','GET'])
def predict():
    x=[[int(x) for x in request.form.values()]]
    print(x)

    x=np.array(x)
    print(x.shape)

    print(x)
    pred=model.predict(x)
    print(pred)
    return render_template('submit.html',prediction_text=pred)

File "< tokenize>", line 4
    print(x)
    ^
IndentationError: unindent does not match any outer indentation level
```

This version of the error message is more descriptive, stating that the unindent does not match any outer indentation level, which typically means the closing brace for the inner loop is missing or incorrectly placed.

The screenshot shows a Google Colab notebook titled "Untitled0.ipynb - Colaboratory". The code cell contains the following Python code:

```
[139]: print(x)
      pred=model.predict(x)
      print(pred)
      return render_template('submit.html',prediction_text=pred)

File "<tokenize>", line 4
    print(x)
    ^
IndentationError: unindent does not match any outer indentation level
```

Below the code cell, there is a search bar labeled "SEARCH STACK OVERFLOW". The output pane shows the following error message:

```
if __name__=="__main__":
    app.run(debug=False)

-----
NameError                                 Traceback (most recent call last)
<ipython-input-140-1c0a974caf79> in <cell line: 1>()
      1 if __name__=="__main__":
      2     app.run(debug=False)
-----
NameError: name 'app' is not defined
```

At the bottom of the screen, the Windows taskbar is visible with various icons and the system tray showing the date and time.

