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Files

- sample_data
- canada_per_capita_income.csv
- hotel_bookings.csv

```
import pandas as pd
a=pd.read_csv('canada_per_capita_income.csv')
a
```

	year	per capita income (US\$)
0	1970	3399.299037
1	1971	3768.297935
2	1972	4261.175484
3	1973	4804.463248
4	1974	5576.514583
5	1975	5998.144346
6	1976	7062.131392
7	1977	7100.126170
8	1978	7247.967035
9	1979	7602.912681
10	1980	8355.968120
11	1981	9434.390652

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```
[5] e=a.drop('per capita income (US$)',axis=1)
e
```

13	1983
14	1984
15	1985
16	1986
17	1987
18	1988
19	1989
20	1990
21	1991
22	1992
23	1993
24	1994
25	1995

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```
[6] f=a['per capita income (US$)']
f
```

	per capita income (US\$)
0	3399.299037
1	3768.297935
2	4251.175484
3	4804.463248
4	5576.514583
5	5998.144346
6	7062.131392
7	7100.126170
8	7247.967035
9	7602.912681
10	8355.968120
11	9434.390652
12	9619.438377

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```
29 17581.024140
30 16987.382410

[8] from sklearn.linear_model import LinearRegression
b=LinearRegression()
c=b.fit(e,f)
c

LinearRegression
LinearRegression()

[9] b.predict([[2020]])

/usr/local/lib/python3.10/dist-packages/sklearn/base.py:493: UserWarning: X does not have valid feature names, but LinearRegression
warnings.warn(
array([41288.69409442])

[10] b.coef_

array([828.46507522])
```

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array([0.20, 0.03, 0.22])

[11] b.intercept_
-1632210.7578554575

[12] 2020*828.46507522+-1632210.7578554575
41288.694088942604

a=pd.read_csv('hotel_bookings.csv')
a

	hotel	is_canceled	lead_time	arrival_date_year	arrival_date_month	arrival_date_week_number	arrival_date_day_of_month
0	Resort Hotel	no	342	2015	July	27	1
1	Resort Hotel	no	737	2015	July	27	1
2	Resort Hotel	no	7	2015	July	27	1
3	Resort Hotel	no	13	2015	July	27	1

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[13] 14517 Resort Hotel no 0 2015 November 48 26

14518 rows x 32 columns

b=a.iloc[:, :2]
b

	hotel	is_canceled
0	Resort Hotel	no
1	Resort Hotel	no
2	Resort Hotel	no
3	Resort Hotel	no
4	Resort Hotel	no
...
14513	Resort Hotel	no
14514	Resort Hotel	no
14515	Resort Hotel	yes

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14518 rows x 2 columns

Next steps: [View recommended plots](#) [New interactive sheet](#)

```
print(b.isnull())
```

	hotel	is_canceled
0	False	False
1	False	False
2	False	False
3	False	False
4	False	False
...
14513	False	False
14514	False	False
14515	False	False
14516	False	False
14517	False	False

[14518 rows x 2 columns]

```
[22] g=b.mode()
      b.fillna(g,inplace=True)
      b
```

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[20] 14517 False False

[14518 rows x 2 columns]

```
g=b.mode()
b.fillna(g,inplace=True)
b
```

	hotel	is_canceled
0	Resort Hotel	no
1	Resort Hotel	no
2	Resort Hotel	no
3	Resort Hotel	no
4	Resort Hotel	no
...
14513	Resort Hotel	no
14514	Resort Hotel	no
14515	Resort Hotel	yes

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Next steps: [View recommended plots](#) [New interactive sheet](#)

```
p=b['hotel'].replace({'City Hotel':1,'Resort Hotel':0})
p
```

<ipython-input-30-0bde9a30eff3>:1: FutureWarning: Downcasting behavior in `replace` is deprecated and will be removed in a future
p=b['hotel'].replace({'City Hotel':1,'Resort Hotel':0})

	hotel
0	0
1	0
2	0
3	0
4	0
...	...
14513	0
14514	0
14515	0

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```
dtype: int64

from sklearn.preprocessing import LabelEncoder
q=['USA','UK','AUS','IND','JAP','NZ']
w=LabelEncoder()
e=w.fit_transform(q)
e

array([5, 4, 0, 1, 2, 3])
```

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