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Files

sample_data
hiring.csv

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

	experience	test_score(out of 10)	interview_score(out of 10)	salary(\$)
0	NaN	8.0	9	50000
1	NaN	8.0	6	45000
2	5.0	6.0	7	60000
3	2.0	10.0	10	65000
4	7.0	9.0	6	70000
5	3.0	7.0	10	62000
6	10.0	NaN	7	72000
7	11.0	7.0	8	80000

Next steps:

View recommended plots

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```
[15] a['experience'].fillna(a['experience'].mean(),inplace=True)
```

<ipython-input-15-71c0fa63b686>:1: FutureWarning: A value is trying to be set on a cov of a DataFrame or Series through chained e...
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a['experience'].fillna(a['experience'].mean(),inplace=True)

<ipython-input-15-71c0fa63b686>:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained a
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are settir
For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[c

a['experience'].fillna(a['experience'].mean(),inplace=True)

4

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[16] a['test_score(out of 10)'].fillna(a['test_score(out of 10)'].mean(),inplace=True)

<ipython-input-16-b8e4b23fc468>:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained a
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are settir
For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[c

a['test_score(out of 10)'].fillna(a['test_score(out of 10)'].mean(),inplace=True)

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```
a['test_score(out of 10)'].fillna(a['test_score(out of 10)'].mean(),inplace=True)

c=a.drop('salary($)',axis=1)
c
```

	experience	test_score(out of 10)	interview_score(out of 10)
0	6.333333	8.000000	9
1	6.333333	8.000000	6
2	5.000000	6.000000	7
3	2.000000	10.000000	10
4	7.000000	9.000000	6
5	3.000000	7.000000	10
6	10.000000	7.857143	7
7	11.000000	7.000000	8

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Files

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hiring.csv

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next steps: view recommended plotsnew interactive sheet

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d=a['salary(\$)']
d

salary(\$)

0	50000
1	45000
2	60000
3	65000
4	70000
5	62000
6	72000
7	80000

dtype: int64

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[20] from sklearn.linear_model import LinearRegression
e=LinearRegression()

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```
from sklearn.linear_model import LinearRegression
g=LinearRegression()
h=g.fit(c,d)
h
```

LinearRegression

```
LinearRegression()
```

[21] g.predict([[2,9,6]])

/usr/local/lib/python3.10/dist-packages/sklearn/base.py:493: UserWarning: X does not have valid feature names, but LinearRegression
warnings.warn(
array([47738.89104313])

[22] g.coef_

```
array([2633.0537639 , 1203.95910777, 2787.82004231])
```

[23] g.intercept_

```
14910.231291544944
```

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14910.231291544944

2*2633.0537639+9*1203.95910777+6*2787.82004231+14910.231291544944

47738.89104313494

[25] g.predict([[12,10,10]])

/usr/local/lib/python3.10/dist-packages/sklearn/base.py:493: UserWarning: X does not have valid feature names, but LinearRegression...
warnings.warn(
array([86424.66795913])

[26] 12*2633.0537639+10*1203.95910777+10*2787.82004231+14910.231291544944

86424.66795914495

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