

```
import pandas as pd
from sklearn.linear_model import LinearRegression

from google.colab import files
uploaded = files.upload()

Choose Files data.csv
• data.csv(text/csv) - 3379 bytes, last modified: 4/18/2024 - 100% done
Saving data.csv to data.csv

dataset = pd.read_csv('data.csv')

print(dataset.shape)
print(dataset.head(5))

(201, 4)
   hours  age  internet  marks
0    6.83   15         1  78.50
1    6.56   16         0  76.74
2     NaN   17         1  78.68
3    5.67   18         0  71.82
4    8.67   19         1  84.19
```

```
dataset.columns[dataset.isna().any()]

Index(['hours'], dtype='object')

dataset.hours = dataset.hours.fillna(dataset.hours.mean())

X = dataset.iloc[:, :-1].values
print(X.shape)
X
```

```
[ 7.55 , 16. , 1. , 1. ,  
[ 6.35 , 17. , 1. , 1. ,  
[ 7.53 , 18. , 0. , 0. ,  
[ 8.56 , 19. , 1. , 1. ,  
[ 8.94 , 20. , 1. , 1. ,  
[ 6.6 , 15. , 1. , 1. ,  
[ 8.35 , 16. , 1. , 1. ,  
[ 4.15 , 15. , 0. , 0. ]])
```

```
Y = dataset.iloc[:, -1].values  
Y
```

```
array([78.5 , 76.74, 78.68, 71.82, 84.19, 81.18, 76.99, 85.46, 70.66,  
77.82, 75.37, 83.88, 79.5 , 80.76, 83.08, 76.03, 76.04, 85.11,  
82.5 , 80.58, 82.18, 83.36, 70.67, 75.02, 70.96, 83.33, 74.75,  
75.65, 74.15, 80.17, 82.27, 76.14, 71.1 , 84.35, 83.08, 76.76,  
81.24, 78.21, 73.08, 83.23, 70.27, 86.41, 71.1 , 82.84, 82.38,  
72.96, 77.46, 70.11, 72.38, 71.41, 72.22, 77.77, 84.44, 71.45,  
82.21, 85.48, 75.03, 86.65, 70.9 , 71.7 , 73.61, 79.41, 76.19,  
80.43, 85.78, 70.06, 81.25, 81.7 , 69.27, 82.79, 71.8 , 71.79,  
74.97, 78.61, 77.59, 72.33, 72.08, 77.33, 70.05, 73.34, 84. ,  
82.93, 76.63, 75.36, 77.29, 72.87, 73.4 , 81.74, 71.85, 84.6 ,  
79.56, 82.1 , 72.08, 79.1 , 81.01, 76.48, 75.39, 68.57, 83.64,  
82.3 , 75.18, 82.03, 82.99, 79.26, 77.55, 77.07, 72.1 , 73.25,  
74.25, 70.58, 81.08, 75.04, 76.38, 80.86, 78.42, 74.44, 70.34,  
85.04, 73.61, 75.55, 76.2 , 82.69, 76.83, 79.53, 83.57, 85.95,  
76.02, 77.65, 77.01, 74.49, 73.19, 71.86, 75.8 , 72.46, 78.39,  
83.48, 83.15, 71.22, 85.98, 83.91, 84.58, 80.31, 82.55, 75.52,  
83.82, 85.15, 82.75, 74.34, 82.02, 86.12, 71.87, 76.7 , 81.7 ,  
70.78, 78.45, 70.2 , 83.37, 75.52, 81.57, 80.72, 80.81, 79.49,  
79.17, 77.07, 82.04, 71.94, 81.6 , 70.79, 82.68, 83.08, 71.18,  
77.63, 77.78, 70.4 , 73.02, 71.11, 85.96, 73.64, 84.24, 78.17,  
77.19, 71.83, 86.99, 83.87, 71.5 , 79.63, 85.1 , 72.01, 77.27,  
79.87, 73.14, 70.51, 84.03, 79.64, 74.24, 81.67, 84.68, 86.75,  
78.05, 83.5 , 81.45])
```

```
model = LinearRegression()  
model.fit(X,Y)
```

```
LinearRegression()  
LinearRegression()
```

```
a=[[9.2,20,0]]  
PredictedmodelResult = model.predict(a)  
print(PredictedmodelResult)
```

```
[86.26599847]
```