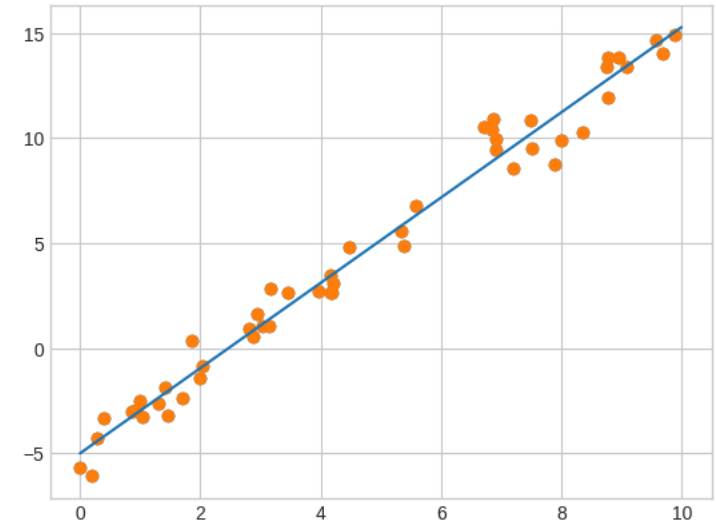
```
import matplotlib.pyplot as plt
plt.style.use('seaborn-whitegrid')
import numpy as np
rng = np.random.RandomState(1)
x = 10 * rng.rand(50)
y = 2 * x - 5 + rng.randn(50)
plt.scatter(x, y);
from sklearn.linear_model import LinearRegression
model = LinearRegression(fit_intercept=True)

model.fit(x[:, np.newaxis], y)

xfit = np.linspace(0, 10, 1000)
yfit = model.predict(xfit[:, np.newaxis])

plt.scatter(x, y)
plt.plot(xfit, yfit);
```

```
<ipython-input-4-f1fc16bed984>:2: MatplotlibDeprecationWarning: The seaborn styles sh
  plt.style.use('seaborn-whitegrid')
```




```
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
from sklearn import preprocessing, svm
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
df = pd.read_csv('/content/mobile_prices_2023.csv')

df.head()
```

	Phone Name	Rating ?/5	Number of Ratings	RAM	ROM/Storage	Back/Rare Camera	Front Camera	Battery	Processor
0	POCO C50 (Royal Blue, 32 GB)	4.2	33,561	2 GB RAM	32 GB ROM	8MP Dual Camera	5MP Front Camera	5000 mAh	Mediatek Helio A22 Processor, Upto 2.0 GHz Pro...
1	POCO M4 5G (Cool Blue, 64 GB)	4.2	77,128	4 GB RAM	64 GB ROM	50MP + 2MP	8MP Front Camera	5000 mAh	Mediatek Dimensity 700 Processor
	POCO								

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression

dataset = pd.read_csv('/content/mobile_prices_2023.csv')
dataset.head()
x = dataset.iloc[:,:-1].values
y = dataset.iloc[:,:-1].values
x_train, x_test, y_train, y_test = train_test_split(x,y,test_size=0.2,random_state=0)
regressor = LinearRegression()
regressor.fit(x_train,y_train)
y_pred = regressor.predict(x_test)
plt.scatter(x_train, y_train, color='red')
plt.plot(x_test, y_pred, color='blue')
plt.show()
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
<ipython-input-32-90dbaac1f78f> in <cell line: 14>()
     12 x_train, x_test, y_train, y_test =
train_test_split(x,y,test_size=0.2,random_state=0)
     13 regressor = LinearRegression()
---> 14 regressor.fit(x_train,y_train)
     15 y_pred = regressor.predict(x_test)
     16 plt.scatter(x_train, y_train, color='red')

                                 4 frames
/usr/local/lib/python3.10/dist-packages/sklearn/utils/_array_api.py in
_asarray_with_order(array, dtype, order, copy, xp)
    183     if xp.__name__ in {"numpy", "numpy.array_api"}:
    184         # Use NumPy API to support order
--> 185         array = numpy.asarray(array, order=order, dtype=dtype)
    186         return xp.asarray(array, copy=copy)
    187     else:

ValueError: could not convert string to float: 'realme 10 Pro+ 5G (Dark Matter, 256
```