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Machine learning batch (3)

Assignment#2

Code :

```
# Importing the libraries
```

```
import numpy as np
```

```
import matplotlib.pyplot as plt
```

```
import pandas as pd
```

```
# Importing the dataset
```

```
dataset = pd.read_csv('headbrain.csv')
```

```
X = dataset.iloc[:,2:3].values
```

```
y = dataset.iloc[:,3:4].values
```

```
from sklearn.model_selection import train_test_split
```

```
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 1/4, random_state = 0)
```

```
# Fitting Simple Linear Regression to the Training set
```

```
from sklearn.linear_model import LinearRegression
```

```
regressor = LinearRegression()
```

```
regressor.fit(X_train, y_train)
```

```
# Predicting the Test set results

y_pred = regressor.predict(X_test)


# Visualising the Training set results

plt.scatter(X_train, y_train, color = 'black')

plt.plot(X_train, regressor.predict(X_train), color = 'red')

plt.title('head size vs brain weight')

plt.xlabel('head size')

plt.ylabel('brainweight')

plt.show()


# Visualising the Test set results

plt.scatter(X_test, y_test, color = 'black')

plt.plot(X_train, regressor.predict(X_train), color = 'red')

plt.title('head size vs brain weight')

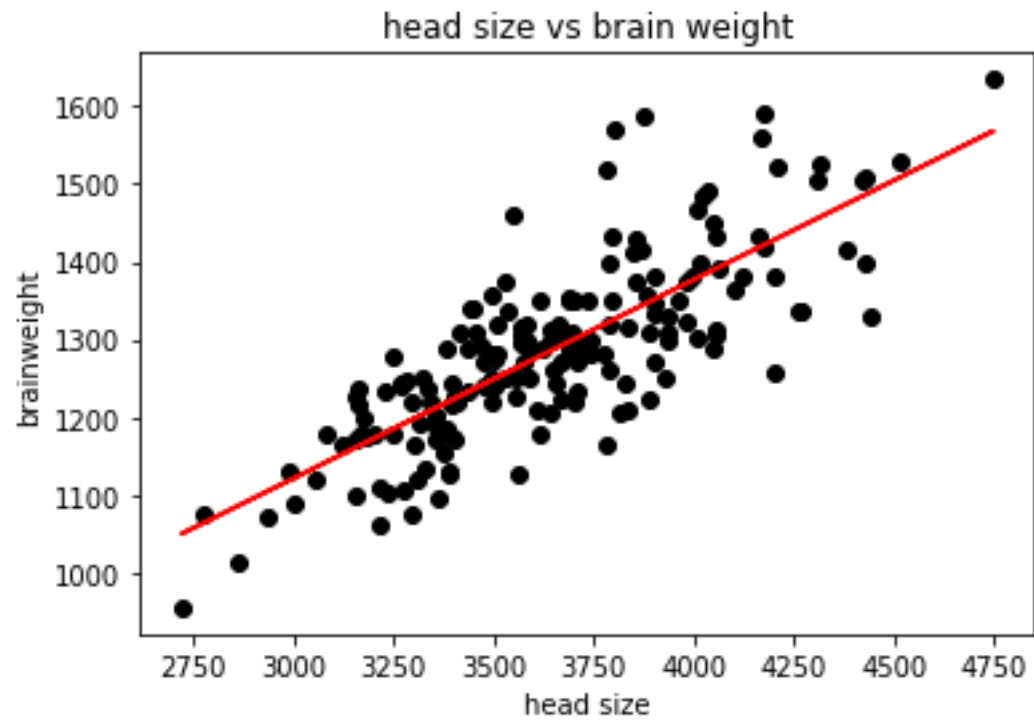
plt.xlabel('head size')

plt.ylabel('brain weight')

plt.show()
```

code output:

Training set:



Test set:

