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DEPARTMENT: COMPUTER INFORMATION SYSTEM ENGINEERING

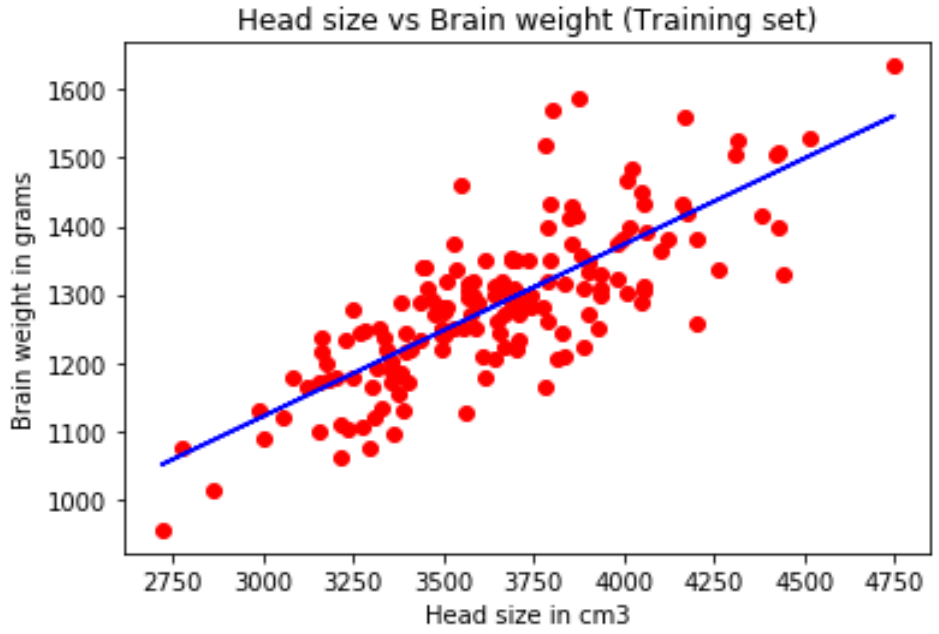
ASSIGNMENT 02

\Users\ahmer\Downloads\Assignemnt-2-batch-3-master\Assignemnt-2-batch-3-master\dataset.py

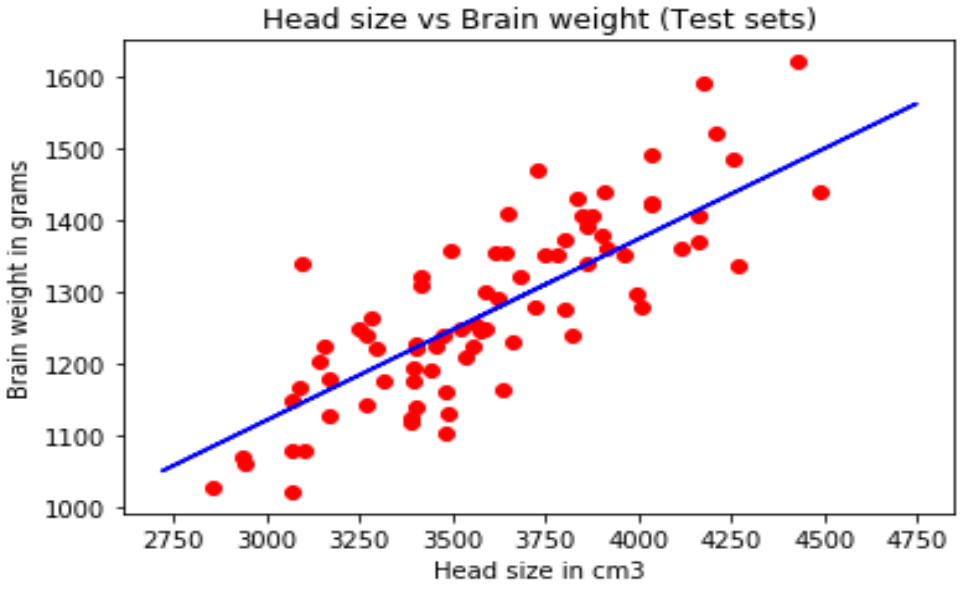
temp.py | dataset.csv | dataset.py

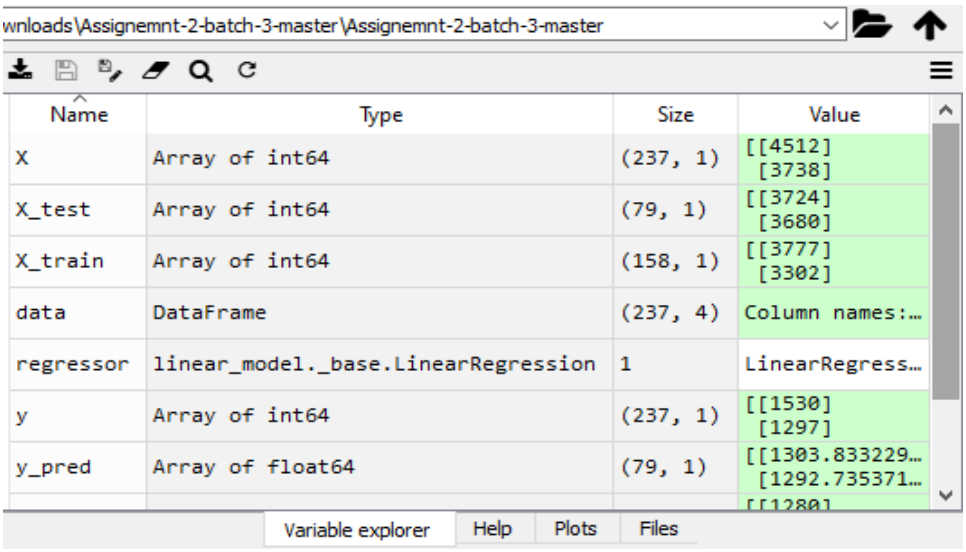
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
data = pd.read_csv('dataset.csv')
print(data.shape)
data.head()

# Collecting X and Y
X = data.iloc[:,2:3].values
y = data.iloc[:,3:4].values

# Splitting the dataset into the Training set and Test set
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size =1/3, 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 = 'red')
plt.plot(X_train, regressor.predict(X_train), color = 'blue')
plt.title('Head size vs Brain weight (Training set)')
plt.xlabel('Head size in cm3')
plt.ylabel('Brain weight in grams')
plt.show()

# Visualising the Test set results
plt.scatter(X_test, y_test, color = 'red')
plt.plot(X_train, regressor.predict(X_train), color = 'blue')
plt.title('Head size vs Brain weight (Test sets)')
plt.xlabel('Head size in cm3')
plt.ylabel('Brain weight in grams')
plt.show()
```

Console 1/A



Console 1/A




wnloads\Assignemnt-2-batch-3-master\Assignemnt-2-batch-3-master
Name
Type
Size
Value
X
Array of int64
(237, 1)
[[4512]
[3738]
X_test
Array of int64
(79, 1)
[[3724]
[3680]
X_train
Array of int64
(158, 1)
[[3777]
[3302]
data
DataFrame
(237, 4)
Column names:…
regressor
linear_model._base.LinearRegression
1
LinearRegress…
y
Array of int64
(237, 1)
[[1530]
[1297]
y_pred
Array of float64
(79, 1)
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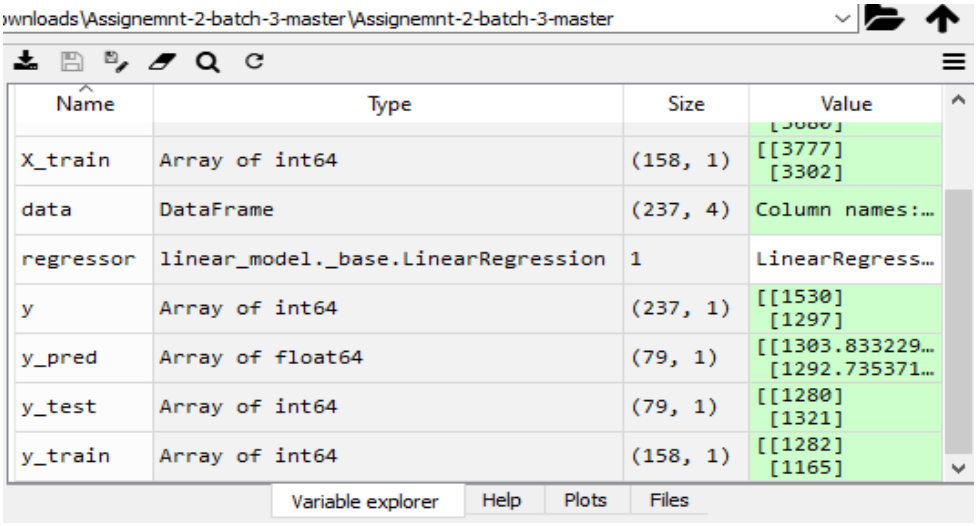
[1292.735371…
Variable explorer
Help
Plots
Files


wnloads\Assignemnt-2-batch-3-master\Assignemnt-2-batch-3-master
Name
Type
Size
Value
X_train
Array of int64
(158, 1)
[[3777]
[3302]
data
DataFrame
(237, 4)
Column names:…
regressor
linear_model._base.LinearRegression
1
LinearRegress…
y
Array of int64
(237, 1)
[[1530]
[1297]
y_pred
Array of float64
(79, 1)
[[1303.833229…
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y_test
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Variable explorer
Help
Plots
Files