

```
# -*- coding: utf-8 -*-
```

```
''''
```

```
Created on Mon Jul 2 15:27:32 2018
```

```
@author: shubham b thorat
```

```
''''
```

```
# -*- coding: utf-8 -*-
```

```
''''
```

```
Created on Thu Jun 28 16:51:21 2018
```

```
Indian-Institutes_ranking
```

```
@author: shubham b thorat
```

```
''''
```

```
# importing the libraries
```

```
import pandas as pd
```

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

```
import numpy as np
```

```
# importing the data set
```

```
dataset=pd.read_csv('Indian_college_ranking.csv', sep = "\t")
```

```
dataset2=pd.read_csv('VIT_data.csv')
```

```
X = dataset.iloc[:,1:5].values
```

```
Y = dataset.iloc[:,0].values
```

```
X_VIT = dataset2.iloc[:,1:5].values
```

```
# dividing dataset into test and training dataset
```

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

```
X_train, X_test, Y_train, Y_test = train_test_split(X,Y, test_size = 1/5, random_state = 1)
```

```
# feature scaling
```

```
from sklearn.preprocessing import StandardScaler
```

```
sc_X = StandardScaler()
```

```
X_train = sc_X.fit_transform(X_train)
```

```
X_test = sc_X.fit_transform(X_test)
```

```
X_VIT = sc_X.fit_transform(X_VIT)
```

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

```
regressor = LinearRegression()
```

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

```
#predicting the test set result
```

```
y_pred = regressor.predict(X_test)
```

```
y_vit = regressor.predict(X_VIT)
```

```
data_sheet =
```

dataset - DataFrame

Index	Rank	aching_and_learni	ofessional_and_cc	aduation_Outcon	reach_and_inclusi	Perception
0	1	93.83	91.44	84.91	63.88	100
1	2	89.61	96.04	76.53	44.71	93.48
2	3	80.83	89.35	81.47	59.72	88.6
3	4	73.73	84.26	85.65	53.99	78.51
4	5	78.51	77.15	78.99	41.46	85.89
5	6	72.8	72.08	88.9	56.66	56.63
6	7	86.29	61.54	76.51	50.46	45.49
7	8	64.6	72.08	68.55	52.3	71.04
8	9	80.63	44.22	71.03	55.11	36.94
9	10	70.22	58.51	73.21	53.43	20.35
10	11	66.49	46.44	72.02	60.96	59.69
11	12	58.26	68.5	77.63	29.09	33.49
12	13	64.7	53.04	74.73	59.99	29.73
13	14	81.42	40.8	69.67	56.16	17.28
14	15	61.82	52.36	78.74	45.76	24.71
15	16	54.64	55.4	65.51	59.22	49.93
16	17	68.55	38.31	69.71	60.21	49.6
17	18	81.45	39.77	64.08	59.02	17.99
18	19	64.43	42.55	77.62	41.66	48.44
19	20	69.77	45.75	73.11	56.55	12.01
20	21	60.34	38.36	71.27	51.1	41.93
21	22	78.87	20.76	62.12	60.82	43.47
22	23	74.43	35.03	65.64	49.3	14.73
23	24	67.25	31.43	72.38	54.79	22.59
24	25	71.22	36.61	50.88	51.69	16.21

Format    Resize    ☒ Background color    ☒ Column min/max



Datasheet2 = (Info Of VIT)

C:/Users/shubham b thorat/ML\_VIT/ML\_VIT - Spyder (Python 3.6)

File Edit Search Source Run Debug Consoles Projects Tools View Help

Project explorer

ML\_VIT

- college\_ranking.csv
- data\_preprocessing\_1.py
- Indian\_college\_ranking.csv
- Indian\_college\_ranking.csv
- Indian\_unver.py
- my\_data\_structure.csv
- Rain\_prediction.csv
- test\_0.py
- test\_1.py
- test\_2.py
- tets\_1.py
- university\_ranking.csv
- VIT\_data.csv

Editor - C:/Users/shubham b thorat/ML\_VIT/ML\_VIT/indian\_unver.py

```
5 @author: shubham b thorat
6 """
7
8 # -*- coding: utf-8 -*-
9 """
10 Created on Thu Jun 28 16:51:21 2018
11
12 @author: shubham b thorat
13
14 # importing the libraries
15 """
16 Indian-Institutes_ranking
17 """
18 import pandas as pd
19 import matplotlib.pyplot as plt
20 import numpy as np
21
22 # importing the data set
23 dataset=pd.read_csv('Indian_college_ranking
24 dataset2=pd.read_csv('VIT_data.csv', sep =
25 X = dataset.iloc[:,1:5].values
26 Y = dataset.iloc[:,0].values
27 X_VIT = dataset2.iloc[:,1:5].values
28
29 # dividing dataset into test and training d
30 from sklearn.model_selection import train_t
31 X_train, X_test, Y_train, Y_test = train_te
32
33 # feature scaling
34 """from sklearn.preprocessing import Stand
35 sc_X = StandardScaler()
36 X_train = sc_X.fit_transform(X_train)
37 X_test = sc_X.fit_transform(X_test)
38 X_VIT = sc_X.fit_transform(X_VIT)
39 """
40 from sklearn.linear_model import LinearRegression
41 regressor = LinearRegression()
42 regressor.fit(X_train,Y_train)
43
44 #predicting the test set result
45 y_pred = regressor.predict(X_test)
46 y_vit = regressor.predict(X_VIT)
```

dataset2 - DataFrame

Index	Rank	TLR	RPC	GO	OI	Perception
0	145	54.67	2.33	64.84	60.38	5.97

Format Resize Background color Column min/max OK Cancel

In [82]:

```
In [82]: runfile('C:/Users/shubham b thorat/ML_VIT/ML_VIT/indian_unver.py',
wdir='C:/Users/shubham b thorat/ML_VIT/ML_VIT')
```

In [83]:

```
In [83]: runfile('C:/Users/shubham b thorat/ML_VIT/ML_VIT/indian_unver.py',
wdir='C:/Users/shubham b thorat/ML_VIT/ML_VIT')
```

In [84]:

1 is required.

Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 24 Column: 47 Memory: 52 %

ENG 4:04 PM 7/2/2018

Rank\_of\_VIT

Y\_VIT = 43.583

C:/Users/shubham b thorat/ML\_VIT/ML\_VIT - Spyder (Python 3.6)

File Edit Search Source Run Debug Consoles Projects Tools View Help

Project explorer

- ML\_VIT
  - college\_ranking.csv
  - data\_preprocessing\_1.py
  - Indian\_college\_ranking
  - Indian\_college\_ranking
  - indian\_unver.py
  - my\_data\_structure.csv
  - Rain\_prediction.csv
  - test\_0.py
  - test\_1.py
  - test\_2.py
  - tets\_1.py
  - university\_ranking.csv
  - VIT\_data.csv

Editor - C:/Users/shubham b thorat/ML\_VIT/ML\_VIT/indian\_unver.py

```
5 @author: shubham b thorat
6 """
7
8 # -*- coding: utf-8 -*-
9 """
10 Created on Thu Jun 28 16:51:21 2018
11
12 @author: shubham b thorat
13 """
14 # importing the libraries
15 """
16 Indian-Institutes_ranking
17 """
18 import pandas as pd
19 import matplotlib.pyplot as plt
20 import numpy as np
21
22 # importing the data set
23 dataset=pd.read_csv('Indian_college_ranking
24 dataset2=pd.read_csv('VIT_data.csv', sep =
25 X = dataset.iloc[:,1:5].values
26 Y = dataset.iloc[:,0].values
27 X_VIT = dataset2.iloc[:,1:5].values
28
29 # dividing dataset into test and training d
30 from sklearn.model_selection import train_t
31 X_train, X_test, Y_train, Y_test = train_te
32
33 # feature scaling
34 """from sklearn.preprocessing import Stand
35 sc_X = StandardScaler()
36 X_train = sc_X.fit_transform(X_train)
37 X_test = sc_X.fit_transform(X_test)
38 X_VIT = sc_X.fit_transform(X_VIT)
39 """
40 from sklearn.linear_model import LinearRegression
41 regressor = LinearRegression()
42 regressor.fit(X_train,Y_train)
43
44 #predicting the test set result
45 y_pred = regressor.predict(X_test)
46 y_vit = regressor.predict(X_VIT)
```

Variable explorer

Name	Type	Size	Value
Y_test	int64	(10,)	array([28, 35, 40, 49, 3, 4, 43, 30, 46, 31], dtype=int64)
	int64	(39,)	array([32, 39, 22, ..., 13, 44, 38], dtype=int64)
DataFrame	DataFrame	(49, 6)	Column names: Rank, Teaching_and_learning, research_professional_and_c ...
2 DataFrame	DataFrame	(1, 6)	Column names: Rank, TLR, RPC, GO, OI, Perception
float64	float64	(10,)	array([ 36.46497525, 33.32814356, 32.6018048 , 39.78306517, ...
float64	float64	(1,)	array([ 43.58302948])

explorer File explorer Help Static code analysis

console

```
sole 1/A
:
: runfile('C:/Users/shubham b thorat/ML_VIT/ML_VIT/indian_unver.py',
: ./Users/shubham b thorat/ML_VIT/ML_VIT')
:
: runfile('C:/Users/shubham b thorat/ML_VIT/ML_VIT/indian_unver.py',
: ./Users/shubham b thorat/ML_VIT/ML_VIT')
:
```

Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 24 Column: 47 Memory: 52 %

Type here to search

ENG 4:05 PM 7/2/2018