

Rank_prediction_2018

VIT_rank(2018) = 117

C:\Users\shubham b thorat\ML_VIT\ML_VIT - Spyder (Python 3.6)

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Project explorer

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 - VIT_data.csv

rank_predict_2018.py

```
1 """
2 Created on Wed Jul 4 19:45:58 2018
3
4
5 @author: shubham b thorat
6 college rank prediction 2017
7 """
8 import pandas as pd
9 import matplotlib.pyplot as plt
10 import numpy as np
11
12 # importing the data set
13 dataset=pd.read_csv('Indian_college_ranking_2018.csv', sep = "\t")
14 dataset2=pd.read_csv('VIT_data.csv')
15 X = dataset.iloc[:,1:5].values
16 Y = dataset.iloc[:,0].values
17 X_VIT = dataset2.iloc[:,1:5].values
18
19 # dividing dataset into test and training dataset
20 from sklearn.model_selection import train_test_split
21 X_train, X_test, Y_train, Y_test = train_test_split(X,Y, test_size = 1/5, random_state =
22
23
24 from sklearn.linear_model import LinearRegression
25 regressor = LinearRegression()
26 regressor.fit(X_train,Y_train)
27
28 from sklearn.preprocessing import PolynomialFeatures
29 poly_reg = PolynomialFeatures(degree = 4)
30 X_poly = poly_reg.fit_transform(X)
31 poly_reg.fit(X_poly, Y)
32 lin_reg2 = LinearRegression()
33 lin_reg2.fit(X_poly,Y)
34
35
36 Y_pred = lin_reg2.predict(poly_reg.fit_transform(X_test))
37 Y_VIT = lin_reg2.predict(poly_reg.fit_transform(X_VIT))
38
39
```

Variable explorer

Name	Type	Size	Value
X	ndarray	(100, 5)	[62.02 4.12 48.34 60.6 ...]
Y	int64	(100,)	[1 2 3 ..., 98 99 100]
Y_pred	float64	(30,)	[81. 85. 34. ..., 28. 47. 39.]
Y_test	int64	(30,)	[81 85 34 ..., 28 47 39]
Y_train	int64	(70,)	[68 100 55 ..., 73 13 38]
dataset	DataFrame	(100, 6)	Column names: TLR (100), RPC (100), GO (100), OI (100), PERCEPTION (10 ...
dataset2	DataFrame	(1, 5)	Column names: TLR (100), RPC (100), GO (100), OI (100), PERCEPTION (10 ...

Python console

Console 1/A

```
AttributeError: 'LinearRegression' object has no attribute 'fit_transform'

In [49]:
In [49]: runfile('C:/Users/shubham b thorat/ML_VIT/ML_VIT/
rank_predict_2018.py', wdir='C:/Users/shubham b thorat/ML_VIT/ML_VIT')
In [50]: runfile('C:/Users/shubham b thorat/ML_VIT/ML_VIT/
rank_predict_2018.py', wdir='C:/Users/shubham b thorat/ML_VIT/ML_VIT')
In [51]: runfile('C:/Users/shubham b thorat/ML_VIT/ML_VIT/
rank_predict_2018.py', wdir='C:/Users/shubham b thorat/ML_VIT/ML_VIT')
In [52]: runfile('C:/Users/shubham b thorat/ML_VIT/ML_VIT/
rank_oredict_2016.py', wdir='C:/Users/shubham b thorat/ML_VIT/ML_VIT')
In [53]: runfile('C:/Users/shubham b thorat/ML_VIT/ML_VIT/
rank_oredict_2017.py', wdir='C:/Users/shubham b thorat/ML_VIT/ML_VIT')
In [54]: runfile('C:/Users/shubham b thorat/ML_VIT/ML_VIT/
rank_oredict_2017.py', wdir='C:/Users/shubham b thorat/ML_VIT/ML_VIT')
In [55]:
```

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Y_pred - NumPy array

	0
0	81
1	85
2	34
3	82
4	94
5	18
6	37
7	83
8	70
9	66
10	93
11	40
12	57
13	53
14	52
15	33
16	31
17	45
18	79
19	11
20	3
21	74

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Y_test - NumPy array

	0
0	81
1	85
2	34
3	82
4	94
5	18
6	37
7	83
8	70
9	66
10	93
11	40
12	57
13	53
14	52
15	33
16	31
17	45
18	79
19	11
20	3
21	74

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