NBA PyCaret

November 24, 2021

[1]:
```
from IPython.display import Image
Image(filename='PyCaret.jpeg')
```

[1]:

[2]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import os
import time
from scipy.stats import reciprocal
import pycaret as py
from pycaret.classification import *
```

[3]:
```
NBA_Data = (r'https://raw.githubusercontent.com/pycaret/pycaret/master/datasets/
 ↪nba.csv')
NBA = pd.read_csv(NBA_Data)
NBA.head()
```

[3]:

	Name	GP	MIN	PTS	FGM	FGA	FG%	3P Made	3PA	3P%	FTM	\
0	Brandon Ingram	36	27.4	7.4	2.6	7.6	34.7	0.5	2.1	25.0	1.6	
1	Andrew Harrison	35	26.9	7.2	2.0	6.7	29.6	0.7	2.8	23.5	2.6	
2	JaKarr Sampson	74	15.3	5.2	2.0	4.7	42.2	0.4	1.7	24.4	0.9	
3	Malik Sealy	58	11.6	5.7	2.3	5.5	42.6	0.1	0.5	22.6	0.9	
4	Matt Geiger	48	11.5	4.5	1.6	3.0	52.4	0.0	0.1	0.0	1.3	

	FTA	FT%	OREB	DREB	REB	AST	STL	BLK	TOV	TARGET_5Yrs
0	2.3	69.9	0.7	3.4	4.1	1.9	0.4	0.4	1.3	0
1	3.4	76.5	0.5	2.0	2.4	3.7	1.1	0.5	1.6	0
2	1.3	67.0	0.5	1.7	2.2	1.0	0.5	0.3	1.0	0
3	1.3	68.9	1.0	0.9	1.9	0.8	0.6	0.1	1.0	1
4	1.9	67.4	1.0	1.5	2.5	0.3	0.3	0.4	0.8	1

[4]:
```
NBA.isnull().sum()
```

[4]:
```
Name            0
GP              0
MIN             0
PTS             0
FGM             0
FGA             0
FG%             0
3P Made         0
3PA             0
3P%            11
FTM             0
FTA             0
FT%             0
OREB            0
DREB            0
REB             0
AST             0
```

```
STL             0
BLK             0
TOV             0
TARGET_5Yrs     0
dtype: int64
```

[5]:
```
NBA=NBA.dropna()
```

[6]:
```
NBA.isnull().sum()
```

[6]:
```
Name            0
GP              0
MIN             0
PTS             0
FGM             0
FGA             0
FG%             0
3P Made         0
3PA             0
3P%             0
FTM             0
FTA             0
FT%             0
OREB            0
DREB            0
REB             0
AST             0
STL             0
BLK             0
TOV             0
TARGET_5Yrs     0
dtype: int64
```

[7]:
```
clf=setup(data=NBA,target='TARGET_5Yrs')
```

```
<pandas.io.formats.style.Styler at 0x253040ae490>
```

[8]:
```
compare_models()
```

```
<pandas.io.formats.style.Styler at 0x25303f7d580>
```

[8]:
```
RidgeClassifier(alpha=1.0, class_weight=None, copy_X=True, fit_intercept=True,
                max_iter=None, normalize=False, random_state=1763,
                solver='auto', tol=0.001)
```

[ ]:
```

```