MÜZIK VE RUH SAğLığı ARAŞTıRMA SONUÇLARININ REGRESSION CLASSIFICTIONLU GÖSTERIMLI





Kütüphaneleri indirdim

from warnings import filterwarnings

filterwarnings("ignore")

```
import pandas as pd
    import numpy as np
    from sklearn.model_selection import train_test_split, GridSearchCV, cross_val_score
    from sklearn.metrics import mean_squared_error, r2_score,accuracy_score, confusion_matrix, r2_score, roc_auc_score, roc_curve,classification_report
    import matplotlib.pyplot as plt
    from sklearn.preprocessing import scale
    from sklearn.preprocessing import StandardScaler
    from sklearn import model selection
    from sklearn.linear model import LogisticRegression
    from sklearn.neighbors import KNeighborsRegressor
    from sklearn.neighbors import KNeighborsClassifier
    from sklearn.neural network import MLPRegressor
    from sklearn.neural_network import MLPClassifier
    from sklearn import neighbors
    from sklearn.svm import SVR
from sklearn.ensemble import GradientBoostingClassifier
```





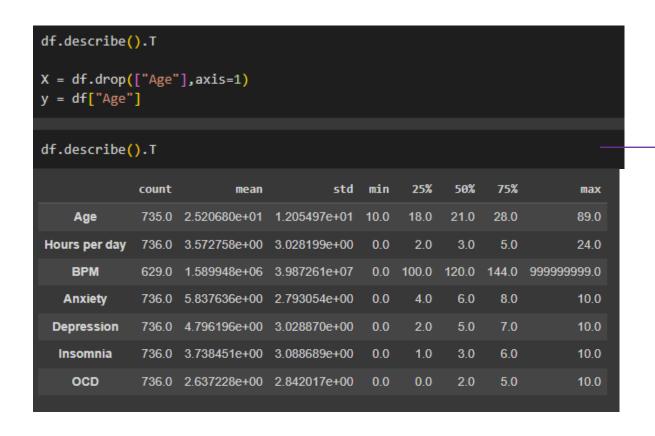


Dosyayı indirip içindeki datalara 10.satıra kadar baktım ve bilgi öğrendim

df = pd.read_csv("/content/mxmh_survey_results.csv")
df.head(10)

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Timestamp	Age	Primary streaming service	Hours per day	While working	Instrumentalist	Composer	Fav genre	Exploratory	Foreign languages	 Frequency [R&B]	Frequency [Rap]	Frequency [Rock]	Frequency [Video game music]	Anxiety	Depression	Insomnia	OCD	Music effects	Permissions
8/27/2022 19:29:02	18.0	Spotify	3.0	Yes	Yes	Yes	Latin	Yes	Yes	Sometimes	Very frequently	Never	Sometimes	3.0	0.0	1.0	0.0	NaN	I understand.
8/27/2022 19:57:31	63.0	Pandora	1.5	Yes	No	No	Rock	Yes	No	Sometimes	Rarely	Very frequently	Rarely	7.0	2.0	2.0	1.0	NaN	I understand.
8/27/2022 21:28:18		Spotify	4.0	No	No	No	Video game music	No	Yes	Never	Rarely	Rarely	Very frequently	7.0	7.0	10.0	2.0	No effect	I understand.
8/27/2022 21:40:40	61.0	YouTube Music	2.5	Yes	No	Yes	Jazz	Yes	Yes	Sometimes	Never	Never	Never	9.0	7.0	3.0	3.0	Improve	I understand.
8/27/2022 21:54:47	18.0	Spotify	4.0	Yes	No	No	R&B	Yes	No	Very frequently	Very frequently	Never	Rarely	7.0	2.0	5.0	9.0	Improve	I understand.
8/27/2022 21:56:50	18.0	Spotify	5.0	Yes	Yes	Yes	Jazz	Yes	Yes	Very frequently	Very frequently	Very frequently	Never	8.0	8.0	7.0	7.0	Improve	I understand.
8/27/2022 22:00:29	8.0	YouTube Music	3.0	Yes	Yes	No	Video game music	Yes	Yes	Rarely	Never	Never	Sometimes	4.0	8.0	6.0	0.0	Improve	I understand.
8/27/2022 22:18:59 2	1.0	Spotify	1.0	Yes	No	No	К рор	Yes	Yes	Sometimes	Rarely	Never	Rarely	5.0	3.0	5.0	3.0	Improve	I understand.
8/27/2022 22:33:05 1	9.0	Spotify	6.0	Yes	No	No	Rock	No	No	Never	Never	Very frequently	Never	2.0	0.0	0.0	0.0	Improve	I understand.
8/27/2022 22:44:03 1	8.0	I do not use a streaming service.	1.0	Yes	No	No	R&B	Yes	Yes	 Sometimes	Rarely	Sometimes	Sometimes	2.0	2.0	5.0	1.0	Improve	I understand.

Düzenli bir şekilde yaştan OCD'ye kadar değerlere baktım(min,max)



.T sayesinde X ve Y değerlerinin yerini değitirdim ve daha düzenli drumasını sağladım

.T'yi koymasaydım bu şekilde gözükürdü

df.desc	ribe()						
	Age	Hours per day	ВРМ	Anxiety	Depression	Insomnia	OCD
count	735.000000	736.000000	6.290000e+02	736.000000	736.000000	736.000000	736.000000
mean	25.206803	3.572758	1.589948e+06	5.837636	4.796196	3.738451	2.637228
std	12.054970	3.028199	3.987261e+07	2.793054	3.028870	3.088689	2.842017
min	10.000000	0.000000	0.000000e+00	0.000000	0.000000	0.000000	0.000000
25%	18.000000	2.000000	1.000000e+02	4.000000	2.000000	1.000000	0.000000
50%	21.000000	3.000000	1.200000e+02	6.000000	5.000000	3.000000	2.000000
75%	28.000000	5.000000	1.440000e+02	8.000000	7.000000	6.000000	5.000000
max	89.000000	24.000000	1.000000e+09	10.000000	10.000000	10.000000	10.000000

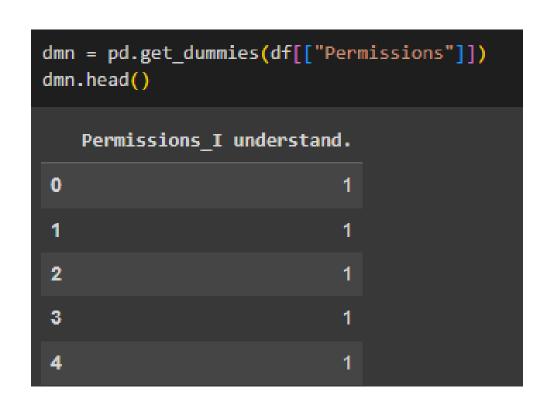


Sayısal olmayan veri için kodlama

	s = pd.get_dummies(df[[ˈ s.head()	"Music effects"]])	
	Music effects_Improve	Music effects_No effect	Music effects_Worsen
0	0	0	0
1	0	0	0
2	0	1	0
3	1	0	0
4	1	0	0

Not:Nan değer olduğu için mussic effects yağtom diğerlerinde ne olduğu sözel olarak çok belliydi aöa mussic effects için bu söylenemez

Sayısal olmayan veri için kodlama permissions için





```
dir(LogisticRegression)
  annotations ',
  _class__',
  _delattr__',
  _dict__',
  dir
  _doc__',
  __eq__',
  _format__',
  __ge__',
  getattribute ',
  getstate ',
  _gt__',
_hash__',
   init__',
   init_subclass__',
 __le__',
  _module__',
  __
__ne__',
  _new__',
  reduce ',
  reduce ex ',
  _repr__',
  setattr '
   _setstate__'
  sizeof_',
  _str__',
 subclasshook ',
  weakref ',
 check feature names',
check n features',
estimator type',
get param names',
get tags',
_more_tags',
parameter constraints',
predict proba lr',
repr html ',
 repr html inner',
repr mimebundle ',
validate data',
validate params'.
'decision function',
'densify',
fit',
'get params',
'predict'.
'predict log proba',
'predict_proba',
'score',
'set params',
'sparsify']
```

```
dir(model selection)
 'BaseCrossValidator',
 'BaseShuffleSplit',
 'GridSearchCV',
 'GroupKFold',
 'GroupShuffleSplit'.
 'KFold'.
 'LearningCurveDisplay',
 LeaveOneGroupOut',
 'LeaveOneOut',
 LeavePGroupsOut',
 LeavePOut',
 'ParameterGrid',
 'ParameterSampler',
 'PredefinedSplit',
 'RandomizedSearchCV',
 'RepeatedKFold'.
 'RepeatedStratifiedKFold',
 'ShuffleSplit',
 'StratifiedGroupKFold',
 'StratifiedKFold',
 'StratifiedShuffleSplit',
 'TimeSeriesSplit',
  ___builtins__',
  __cached__',
  doc '
  file
  getattr
  loader
  name
  package '.
  _path__
  spec ',
plot',
 search'.
split',
validation',
check cv',
'cross val predict',
'cross val score',
'cross validate',
'learning curve',
'permutation test score',
'train test split',
typing',
'validation curve']
```

nesnenin geçerli özniteliklerinin bir listesini döndürdme



```
df_new = pd.DataFrame(y_train, columns=["Tahmin"])

if "Music effects" in y_test:
    df_new["Gerçek"]=y_test.reset_index()["Music effects"]

else:
    print("Column 'Music effects' not found in y_test DataFrame.")

Column 'Music effects' not found in y_test DataFrame.
```

```
df_new = pd.DataFrame(y_train, columns=["Tahmin"])

if "Anxiety" in y_train:
    df_new["Gerçek"]=y_train.reset_index()["Anxiety"]

else:
    print("Column 'Anxiety' not found in y_train DataFrame.")

Column 'Anxiety' not found in y_train DataFrame.
```

'Amacım burda tahmin gerçek değeri bulmaktı Müzik efektleri' sütunu y_test DataFrame'de bulunamadı Aynı şey Anksiyete içinde geçerli







TEŞEKKÜRLER



Ad:Azra

SoyAd:Paşali

Bölüm:Python ve Makine Dili

