

```
In [1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

```
In [19]: #Importing the dataset.
df=pd.read_csv("WA_Fn-UseC_-HR-Employee-Attrition.csv")
df
```

Out[19]:

| | Age | Attrition | BusinessTravel | DailyRate | Department | DistanceFromHome | Education | EducationField | EmployeeCount | EmployeeNumber |
|------|-----|-----------|-------------------|-----------|------------------------|------------------|-----------|----------------|---------------|----------------|
| 0 | 41 | Yes | Travel_Rarely | 1102 | Sales | 1 | 2 | Life Sciences | 1 | 1 |
| 1 | 49 | No | Travel_Frequently | 279 | Research & Development | 8 | 1 | Life Sciences | 1 | 2 |
| 2 | 37 | Yes | Travel_Rarely | 1373 | Research & Development | 2 | 2 | Other | 1 | 4 |
| 3 | 33 | No | Travel_Frequently | 1392 | Research & Development | 3 | 4 | Life Sciences | 1 | 5 |
| 4 | 27 | No | Travel_Rarely | 591 | Research & Development | 2 | 1 | Medical | 1 | 7 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1465 | 36 | No | Travel_Frequently | 884 | Research & Development | 23 | 2 | Medical | 1 | 2061 |
| 1466 | 39 | No | Travel_Rarely | 613 | Research & Development | 6 | 1 | Medical | 1 | 2062 |
| 1467 | 27 | No | Travel_Rarely | 155 | Research & Development | 4 | 3 | Life Sciences | 1 | 2064 |
| 1468 | 49 | No | Travel_Frequently | 1023 | Sales | 2 | 3 | Medical | 1 | 2065 |
| 1469 | 34 | No | Travel_Rarely | 628 | Research & Development | 8 | 3 | Medical | 1 | 2066 |

1470 rows × 35 columns

```
In [4]: df.head()
```

Out[4]:

| | Age | Attrition | BusinessTravel | DailyRate | Department | DistanceFromHome | Education | EducationField | EmployeeCount | EmployeeNumber |
|---|-----|-----------|-------------------|-----------|------------------------|------------------|-----------|----------------|---------------|----------------|
| 0 | 41 | Yes | Travel_Rarely | 1102 | Sales | 1 | 2 | Life Sciences | 1 | 1 |
| 1 | 49 | No | Travel_Frequently | 279 | Research & Development | 8 | 1 | Life Sciences | 1 | 2 |
| 2 | 37 | Yes | Travel_Rarely | 1373 | Research & Development | 2 | 2 | Other | 1 | 4 |
| 3 | 33 | No | Travel_Frequently | 1392 | Research & Development | 3 | 4 | Life Sciences | 1 | 5 |
| 4 | 27 | No | Travel_Rarely | 591 | Research & Development | 2 | 1 | Medical | 1 | 7 |

5 rows × 35 columns

```
In [5]: df.shape
```

Out[5]: (1470, 35)

```
In [6]: df.Department.value_counts()
```

Out[6]: Research & Development 961
Sales 446
Human Resources 63
Name: Department, dtype: int64

```
In [7]: df.info()
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1470 entries, 0 to 1469

```
Data columns (total 35 columns):
#      Column                                Non-Null Count  Dtype
---  -
0      Age                                1470 non-null   int64
1      Attrition                            1470 non-null   object
2      BusinessTravel                        1470 non-null   object
3      DailyRate                             1470 non-null   int64
4      Department                            1470 non-null   object
5      DistanceFromHome                     1470 non-null   int64
6      Education                             1470 non-null   int64
7      EducationField                         1470 non-null   object
8      EmployeeCount                         1470 non-null   int64
9      EmployeeNumber                       1470 non-null   int64
10     EnvironmentSatisfaction                1470 non-null   int64
11     Gender                                1470 non-null   object
12     HourlyRate                             1470 non-null   int64
13     JobInvolvement                        1470 non-null   int64
14     JobLevel                              1470 non-null   int64
15     JobRole                                1470 non-null   object
16     JobSatisfaction                        1470 non-null   int64
17     MaritalStatus                         1470 non-null   object
18     MonthlyIncome                         1470 non-null   int64
19     MonthlyRate                           1470 non-null   int64
20     NumCompaniesWorked                   1470 non-null   int64
21     Over18                                1470 non-null   object
22     OverTime                              1470 non-null   object
23     PercentSalaryHike                     1470 non-null   int64
24     PerformanceRating                     1470 non-null   int64
25     RelationshipSatisfaction               1470 non-null   int64
26     StandardHours                         1470 non-null   int64
27     StockOptionLevel                     1470 non-null   int64
28     TotalWorkingYears                     1470 non-null   int64
29     TrainingTimesLastYear                 1470 non-null   int64
30     WorkLifeBalance                       1470 non-null   int64
31     YearsAtCompany                        1470 non-null   int64
32     YearsInCurrentRole                    1470 non-null   int64
33     YearsSinceLastPromotion               1470 non-null   int64
34     YearsWithCurrManager                  1470 non-null   int64
dtypes: int64(26), object(9)
memory usage: 402.1+ KB
```

```
In [8]: df.describe()
```

```
Out[8]:
```

| | Age | DailyRate | DistanceFromHome | Education | EmployeeCount | EmployeeNumber | EnvironmentSatisfaction | HourlyRate | JobInvolvement |
|-------|-------------|-------------|------------------|-------------|---------------|----------------|-------------------------|-------------|----------------|
| count | 1470.000000 | 1470.000000 | 1470.000000 | 1470.000000 | 1470.0 | 1470.000000 | 1470.000000 | 1470.000000 | 1470.000000 |
| mean | 36.923810 | 802.485714 | 9.192517 | 2.912925 | 1.0 | 1024.865306 | 2.721769 | 65.891156 | 65.891156 |
| std | 9.135373 | 403.509100 | 8.106864 | 1.024165 | 0.0 | 602.024335 | 1.093082 | 20.329428 | 20.329428 |
| min | 18.000000 | 102.000000 | 1.000000 | 1.000000 | 1.0 | 1.000000 | 1.000000 | 30.000000 | 30.000000 |
| 25% | 30.000000 | 465.000000 | 2.000000 | 2.000000 | 1.0 | 491.250000 | 2.000000 | 48.000000 | 48.000000 |
| 50% | 36.000000 | 802.000000 | 7.000000 | 3.000000 | 1.0 | 1020.500000 | 3.000000 | 66.000000 | 66.000000 |
| 75% | 43.000000 | 1157.000000 | 14.000000 | 4.000000 | 1.0 | 1555.750000 | 4.000000 | 83.750000 | 83.750000 |
| max | 60.000000 | 1499.000000 | 29.000000 | 5.000000 | 1.0 | 2068.000000 | 4.000000 | 100.000000 | 100.000000 |

8 rows × 26 columns

```
In [9]: #Checking for Null Values.
df.isnull().any()
```

```
Out[9]:
```

| | |
|-------------------------|-------|
| Age | False |
| Attrition | False |
| BusinessTravel | False |
| DailyRate | False |
| Department | False |
| DistanceFromHome | False |
| Education | False |
| EducationField | False |
| EmployeeCount | False |
| EmployeeNumber | False |
| EnvironmentSatisfaction | False |
| Gender | False |
| HourlyRate | False |
| JobInvolvement | False |
| JobLevel | False |
| JobRole | False |
| JobSatisfaction | False |
| MaritalStatus | False |

```

MonthlyIncome      False
MonthlyRate         False
NumCompaniesWorked  False
Over18             False
OverTime            False
PercentSalaryHike   False
PerformanceRating   False
RelationshipSatisfaction  False
StandardHours       False
StockOptionLevel    False
TotalWorkingYears   False
TrainingTimesLastYear  False
WorkLifeBalance     False
YearsAtCompany      False
YearsInCurrentRole   False
YearsSinceLastPromotion False
YearsWithCurrManager False
dtype: bool

```

```
In [10]: df.isnull().sum()
```

```

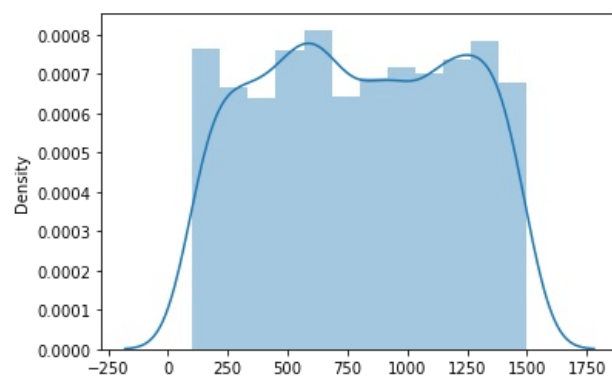
Out[10]: Age                0
Attrition                0
BusinessTravel           0
DailyRate               0
Department              0
DistanceFromHome        0
Education                0
EducationField           0
EmployeeCount            0
EmployeeNumber           0
EnvironmentSatisfaction  0
Gender                  0
HourlyRate              0
JobInvolvement           0
JobLevel                0
JobRole                 0
JobSatisfaction          0
MaritalStatus            0
MonthlyIncome            0
MonthlyRate              0
NumCompaniesWorked       0
Over18                  0
OverTime                 0
PercentSalaryHike        0
PerformanceRating        0
RelationshipSatisfaction  0
StandardHours            0
StockOptionLevel         0
TotalWorkingYears        0
TrainingTimesLastYear    0
WorkLifeBalance          0
YearsAtCompany           0
YearsInCurrentRole        0
YearsSinceLastPromotion   0
YearsWithCurrManager      0
dtype: int64

```

```
In [11]: sns.distplot(df["DailyRate"])
```

C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).
warnings.warn(msg, FutureWarning)

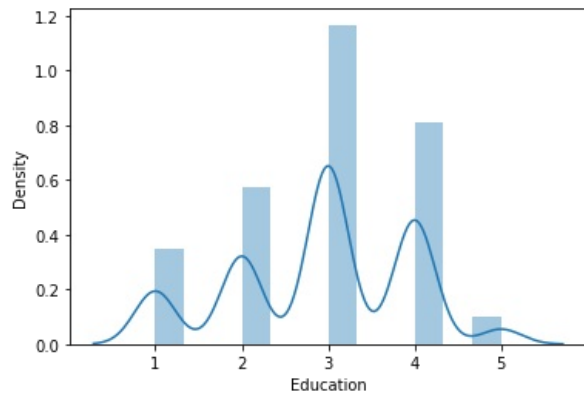
```
Out[11]: <AxesSubplot:xlabel='DailyRate', ylabel='Density'>
```



```
In [12]: sns.distplot(df["Education"])
```

C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).
warnings.warn(msg, FutureWarning)

```
Out[12]: <AxesSubplot:xlabel='Education', ylabel='Density'>
```



```
In [13]: df.corr()
```

```
Out[13]:
```

| | Age | DailyRate | DistanceFromHome | Education | EmployeeCount | EmployeeNumber | EnvironmentSatisfaction | HourlyRate |
|--------------------------|-----------|-----------|------------------|-----------|---------------|----------------|-------------------------|------------|
| Age | 1.000000 | 0.010661 | -0.001686 | 0.208034 | NaN | -0.010145 | 0.010146 | 0.024287 |
| DailyRate | 0.010661 | 1.000000 | -0.004985 | -0.016806 | NaN | -0.050990 | 0.018355 | 0.023381 |
| DistanceFromHome | -0.001686 | -0.004985 | 1.000000 | 0.021042 | NaN | 0.032916 | -0.016075 | 0.008783 |
| Education | 0.208034 | -0.016806 | 0.021042 | 1.000000 | NaN | 0.042070 | -0.027128 | 0.042438 |
| EmployeeCount | NaN | NaN | NaN | NaN | NaN | NaN | NaN | NaN |
| EmployeeNumber | -0.010145 | -0.050990 | 0.032916 | 0.042070 | NaN | 1.000000 | 0.017621 | 0.035179 |
| EnvironmentSatisfaction | 0.010146 | 0.018355 | -0.016075 | -0.027128 | NaN | 0.017621 | 1.000000 | -0.049857 |
| HourlyRate | 0.024287 | 0.023381 | 0.031131 | 0.016775 | NaN | 0.035179 | -0.049857 | 1.000000 |
| JobInvolvement | 0.029820 | 0.046135 | 0.008783 | 0.042438 | NaN | -0.006888 | -0.008278 | 0.000473 |
| JobLevel | 0.509604 | 0.002966 | 0.005303 | 0.101589 | NaN | -0.018519 | 0.001212 | -0.006784 |
| JobSatisfaction | -0.004892 | 0.030571 | -0.003669 | -0.011296 | NaN | -0.046247 | -0.006784 | -0.006784 |
| MonthlyIncome | 0.497855 | 0.007707 | -0.017014 | 0.094961 | NaN | -0.014829 | -0.006259 | -0.006259 |
| MonthlyRate | 0.028051 | -0.032182 | 0.027473 | -0.026084 | NaN | 0.012648 | 0.037600 | -0.037600 |
| NumCompaniesWorked | 0.299635 | 0.038153 | -0.029251 | 0.126317 | NaN | -0.001251 | 0.012594 | 0.012594 |
| PercentSalaryHike | 0.003634 | 0.022704 | 0.040235 | -0.011111 | NaN | -0.012944 | -0.031701 | -0.031701 |
| PerformanceRating | 0.001904 | 0.000473 | 0.027110 | -0.024539 | NaN | -0.020359 | -0.029548 | -0.029548 |
| RelationshipSatisfaction | 0.053535 | 0.007846 | 0.006557 | -0.009118 | NaN | -0.069861 | 0.007665 | 0.007665 |
| StandardHours | NaN | NaN | NaN | NaN | NaN | NaN | NaN | NaN |
| StockOptionLevel | 0.037510 | 0.042143 | 0.044872 | 0.018422 | NaN | 0.062227 | 0.003432 | 0.003432 |
| TotalWorkingYears | 0.680381 | 0.014515 | 0.004628 | 0.148280 | NaN | -0.014365 | -0.002693 | -0.002693 |
| TrainingTimesLastYear | -0.019621 | 0.002453 | -0.036942 | -0.025100 | NaN | 0.023603 | -0.019359 | -0.019359 |
| WorkLifeBalance | -0.021490 | -0.037848 | -0.026556 | 0.009819 | NaN | 0.010309 | 0.027627 | 0.027627 |
| YearsAtCompany | 0.311309 | -0.034055 | 0.009508 | 0.069114 | NaN | -0.011240 | 0.001458 | -0.001458 |
| YearsInCurrentRole | 0.212901 | 0.009932 | 0.018845 | 0.060236 | NaN | -0.008416 | 0.018007 | -0.018007 |
| YearsSinceLastPromotion | 0.216513 | -0.033229 | 0.010029 | 0.054254 | NaN | -0.009019 | 0.016194 | -0.016194 |
| YearsWithCurrManager | 0.202089 | -0.026363 | 0.014406 | 0.069065 | NaN | -0.009197 | -0.004999 | -0.004999 |

26 rows × 26 columns

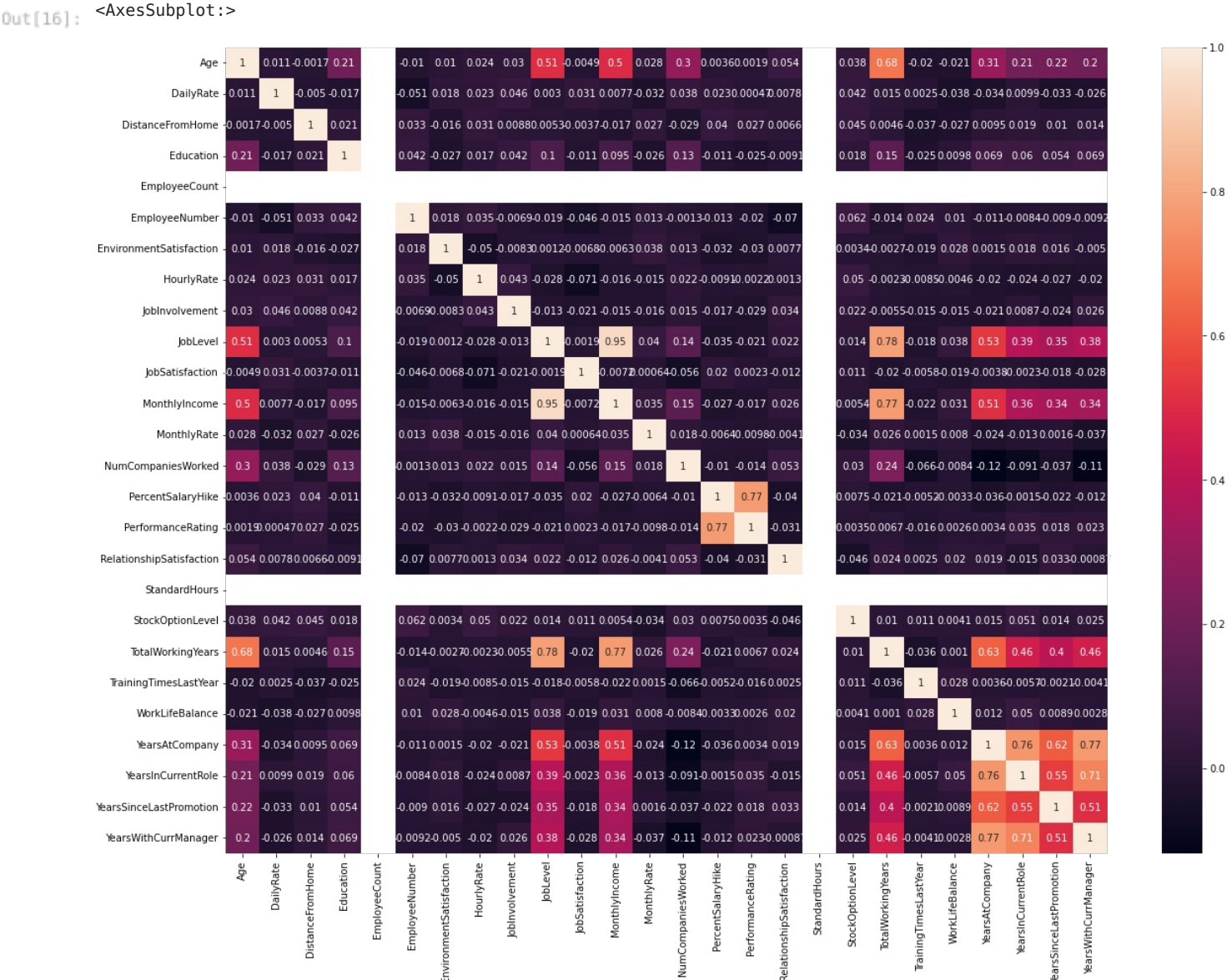
```
In [14]: df.head()

Out[14]:
```

| | Age | Attrition | BusinessTravel | DailyRate | Department | DistanceFromHome | Education | EducationField | EmployeeCount | EmployeeNumber | .. |
|---|-----|-----------|-------------------|-----------|------------------------|------------------|-----------|----------------|---------------|----------------|------|
| 0 | 41 | Yes | Travel_Rarely | 1102 | Sales | | 1 | 2 | Life Sciences | 1 | 1 .. |
| 1 | 49 | No | Travel_Frequently | 279 | Research & Development | | 8 | 1 | Life Sciences | 1 | 2 .. |
| 2 | 37 | Yes | Travel_Rarely | 1373 | Research & Development | | 2 | 2 | Other | 1 | 4 .. |
| 3 | 33 | No | Travel_Frequently | 1392 | Research & Development | | 3 | 4 | Life Sciences | 1 | 5 .. |
| 4 | 27 | No | Travel_Rarely | 591 | Research & Development | | 2 | 1 | Medical | 1 | 7 .. |

5 rows × 35 columns

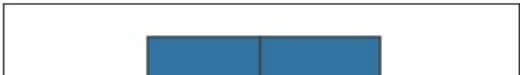
```
In [16]: plt.subplots(figsize=(20,15))
sns.heatmap(df.corr(),annot=True)
```

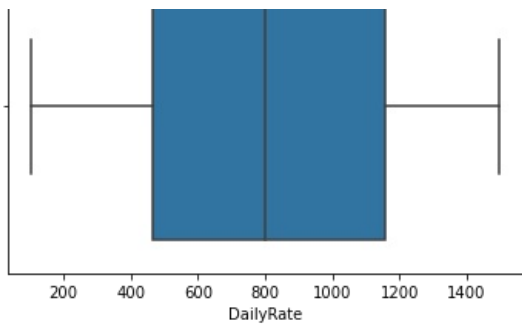


```
In [17]: sns.boxplot(df.DailyRate)

C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing o
ther arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(

Out[17]: <AxesSubplot:xlabel='DailyRate'>
```





In [18]: `df.head()`

Out[18]:

| | Age | Attrition | BusinessTravel | DailyRate | Department | DistanceFromHome | Education | EducationField | EmployeeCount | EmployeeNumber | .. |
|---|-----|-----------|-------------------|-----------|------------------------|------------------|-----------|----------------|---------------|----------------|----|
| 0 | 41 | Yes | Travel_Rarely | 1102 | Sales | 1 | 2 | Life Sciences | 1 | 1 | .. |
| 1 | 49 | No | Travel_Frequently | 279 | Research & Development | 8 | 1 | Life Sciences | 1 | 2 | .. |
| 2 | 37 | Yes | Travel_Rarely | 1373 | Research & Development | 2 | 2 | Other | 1 | 4 | .. |
| 3 | 33 | No | Travel_Frequently | 1392 | Research & Development | 3 | 4 | Life Sciences | 1 | 5 | .. |
| 4 | 27 | No | Travel_Rarely | 591 | Research & Development | 2 | 1 | Medical | 1 | 7 | .. |

5 rows × 35 columns

In [20]: `#Splitting Dependent and Independent variables`
`x=df.iloc[:,3:6]`
`x.head()`

Out[20]:

| | DailyRate | Department | DistanceFromHome |
|---|-----------|------------------------|------------------|
| 0 | 1102 | Sales | 1 |
| 1 | 279 | Research & Development | 8 |
| 2 | 1373 | Research & Development | 2 |
| 3 | 1392 | Research & Development | 3 |
| 4 | 591 | Research & Development | 2 |

In [31]: `y=df.Attrition`
`y.head()`

Out[31]:

```
0    Yes
1    No
2    Yes
3    No
4    No
Name: Attrition, dtype: object
```

In [33]: `#label ENCODING`
`from sklearn.preprocessing import LabelEncoder`
`le=LabelEncoder()`
`x.Department=le.fit_transform(x.Department)`
`x.head()`

Out[33]:

| | DailyRate | Department | DistanceFromHome |
|---|-----------|------------|------------------|
| 0 | 1102 | 2 | 1 |
| 1 | 279 | 1 | 8 |
| 2 | 1373 | 1 | 2 |
| 3 | 1392 | 1 | 3 |
| 4 | 591 | 1 | 2 |

```
In [34]: #feature scaling
from sklearn.preprocessing import MinMaxScaler
ms=MinMaxScaler()
x_scaled=pd.DataFrame(ms.fit_transform(x), columns=x.columns)
x_scaled
```

| Out[34]: | DailyRate | Department | DistanceFromHome |
|----------|-----------|------------|------------------|
| 0 | 0.715820 | 1.0 | 0.000000 |
| 1 | 0.126700 | 0.5 | 0.250000 |
| 2 | 0.909807 | 0.5 | 0.035714 |
| 3 | 0.923407 | 0.5 | 0.071429 |
| 4 | 0.350036 | 0.5 | 0.035714 |
| ... | ... | ... | ... |
| 1465 | 0.559771 | 0.5 | 0.785714 |
| 1466 | 0.365784 | 0.5 | 0.178571 |
| 1467 | 0.037938 | 0.5 | 0.107143 |
| 1468 | 0.659270 | 1.0 | 0.035714 |
| 1469 | 0.376521 | 0.5 | 0.250000 |

1470 rows × 3 columns

```
In [35]: #splitting Data into Train and Test
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(x_scaled,y,test_size=0.2,random state=0)
```

```
In [36]: x_train.shape,x_test.shape,y_train.shape,y_test.shape
```

```
Out[36]: ((1176, 3), (294, 3), (1176,), (294,))
```

Logistic Regression

```
In [37]: from sklearn.linear_model import LogisticRegression
          model=LogisticRegression()
          model.fit(x_train,y_train)
```

```
Out[37]: LogisticRegression()
```

```
In [38]: pred=model.predict(x_test)
pred
```

[illegible]

```
'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No',  
'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No'], dtype=object)
```

```
In [39]: y_test
```

```
Out[39]: 442      No  
1091     No  
981      Yes  
785      No  
1332     Yes  
...  
1439     No  
481      No  
124      Yes  
198      No  
1229     No  
Name: Attrition, Length: 294, dtype: object
```

```
In [40]: #Evaluation of classification model  
#Accuracy score  
from sklearn.metrics import accuracy_score, confusion_matrix, classification_report, roc_auc_score, roc_curve
```

```
In [41]: accuracy_score(y_test, pred)
```

```
Out[41]: 0.8333333333333334
```

```
In [42]: confusion_matrix(y_test, pred)
```

```
Out[42]: array([[245,  0],  
               [ 49,  0]], dtype=int64)
```

```
In [43]: print(classification_report(y_test, pred))
```

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| No | 0.83 | 1.00 | 0.91 | 245 |
| Yes | 0.00 | 0.00 | 0.00 | 49 |
| accuracy | | | 0.83 | 294 |
| macro avg | 0.42 | 0.50 | 0.45 | 294 |
| weighted avg | 0.69 | 0.83 | 0.76 | 294 |

```
C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1248: UndefinedMetricWarni  
ng: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_div  
ision` parameter to control this behavior.  
_warn_prf(average, modifier, msg_start, len(result))  
C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1248: UndefinedMetricWarni  
ng: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_div  
ision` parameter to control this behavior.  
_warn_prf(average, modifier, msg_start, len(result))  
C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1248: UndefinedMetricWarni  
ng: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_div  
ision` parameter to control this behavior.  
_warn_prf(average, modifier, msg_start, len(result))
```

Decision Tree

```
In [44]: from sklearn.tree import DecisionTreeClassifier  
dtc=DecisionTreeClassifier()
```

```
In [45]: dtc.fit(x_train, y_train)
```

```
Out[45]: DecisionTreeClassifier()
```



```
In [46]: pred=dtc.predict(x_test)
```

```
In [47]: pred
```

```
Out[47]: array(['No', 'No', 'No', 'No', 'Yes', 'No', 'No', 'No', 'No', 'No', 'No', 'No',  
        'No', 'No', 'No', 'No', 'No', 'Yes', 'Yes', 'Yes', 'No', 'No',  
        'Yes', 'No', 'Yes', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No',  
        'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No',  
        'No', 'No', 'No', 'No', 'Yes', 'Yes', 'No', 'No', 'No', 'No',  
        'Yes', 'No', 'No', 'No', 'No', 'No', 'Yes', 'No', 'No', 'No',  
        'Yes', 'No', 'Yes', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No',  
        'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No',  
        'Yes', 'No', 'No', 'No', 'No', 'No', 'Yes', 'Yes', 'No', 'No',  
        'No', 'Yes', 'No', 'Yes', 'No', 'No', 'No', 'No', 'No', 'No', 'No',  
        'No', 'No', 'Yes', 'Yes', 'Yes', 'No', 'No', 'No', 'No', 'No',  
        'Yes', 'No', 'No', 'No', 'No', 'Yes', 'No', 'No', 'Yes', 'Yes',  
        'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'Yes', 'No', 'No',  
        'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No',  
        'No', 'No', 'Yes', 'No', 'No', 'No', 'No', 'No', 'Yes', 'No', 'No',  
        'Yes', 'No', 'No', 'No', 'Yes', 'Yes', 'Yes', 'No', 'No', 'No',  
        'No', 'No', 'No', 'Yes', 'No', 'No', 'No', 'Yes', 'Yes', 'No',  
        'No', 'No', 'No', 'Yes', 'No', 'No', 'No', 'Yes', 'No', 'Yes',  
        'Yes', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No', 'No',  
        'No', 'Yes', 'Yes', 'No', 'No', 'No', 'No', 'No', 'No', 'No',  
        'No', 'No', 'Yes', 'No', 'No', 'No', 'No', 'No', 'No', 'No',  
        'Yes', 'No', 'No', 'No', 'No', 'No', 'Yes', 'Yes', 'No', 'Yes',  
        'No', 'No', 'Yes', 'No', 'No', 'No', 'No', 'No', 'No', 'No',  
        'No', 'No', 'No', 'No', 'Yes', 'No', 'No', 'No', 'No', 'No',  
        'No', 'No', 'No', 'No', 'No', 'No', 'Yes', 'No', 'No', 'Yes',  
        'No', 'No', 'Yes', 'No', 'No', 'No', 'Yes'], dtype=object)
```

```
In [48]: y_test
```

```
Out[48]: 442      No
1091     No
981      Yes
785      No
1332     Yes
...
1439     No
481      No
124      Yes
198      No
1229     No
Name: Attrition, Length: 294, dtype: object
```

```
In [49]: accuracy_score(y_test,pred)
```

```
Out[49]: 0.7040816326530612
```

```
In [50]: confusion_matrix(y_test,pred)
```

```
Out[50]: array([[198, 47],
               [ 40,  9]], dtype=int64)
```

```
In [51]: print(classification_report(y_test,pred))
```

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| No | 0.83 | 0.81 | 0.82 | 245 |
| Yes | 0.16 | 0.18 | 0.17 | 49 |
| accuracy | | | 0.70 | 294 |
| macro avg | 0.50 | 0.50 | 0.50 | 294 |
| weighted avg | 0.72 | 0.70 | 0.71 | 294 |

```
In [52]: probability=dtc.predict_proba(x_test)[:,-1]
```

probability

[illegible]

```
from sklearn import tree
plt.figure(figsize=(25,15))
tree.plot_tree(dtc,filled=True)
```

```
Out[55]: [Text(625.789817622415, 799.7192307692308, 'X[2] <= 0.375\ngini = 0.269\nsamples = 1176\nvalue = [988, 188]'),
Text(129.74011252437015, 768.3576923076923, 'X[0] <= 0.002\ngini = 0.24\nsamples = 847\nvalue = [729, 118]'),
Text(123.04545145658369, 736.9961538461538, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(136.43477359215657, 736.9961538461538, 'X[0] <= 0.071\ngini = 0.238\nsamples = 846\nvalue = [729, 117]'),
Text(26.778644271145772, 705.6346153846154, 'X[0] <= 0.006\ngini = 0.095\nsamples = 60\nvalue = [57, 3]'),
Text(13.389322135572886, 674.2730769230769, 'X[2] <= 0.214\ngini = 0.444\nsamples = 3\nvalue = [2, 1]'),
Text(6.694661067786443, 642.9115384615384, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(20.08398320335933, 642.9115384615384, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'),
Text(40.16796640671866, 674.2730769230769, 'X[0] <= 0.03\ngini = 0.068\nsamples = 57\nvalue = [55, 2]'),
Text(33.473305338932214, 642.9115384615384, 'X[0] <= 0.029\ngini = 0.18\nsamples = 20\nvalue = [18, 2]'),
Text(26.778644271145772, 611.55, 'X[2] <= 0.089\ngini = 0.1\nsamples = 19\nvalue = [18, 1]'),
Text(20.08398320335933, 580.1884615384615, 'gini = 0.0\nsamples = 11\nvalue = [11, 0]'),
Text(33.473305338932214, 580.1884615384615, 'X[2] <= 0.143\ngini = 0.219\nsamples = 8\nvalue = [7, 1]'),
Text(26.778644271145772, 548.8269230769231, 'X[0] <= 0.016\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(20.08398320335933, 517.4653846153847, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(33.473305338932214, 517.4653846153847, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(40.16796640671866, 548.8269230769231, 'gini = 0.0\nsamples = 6\nvalue = [6, 0]'),
Text(40.16796640671866, 611.55, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(46.8626274745051, 642.9115384615384, 'gini = 0.0\nsamples = 37\nvalue = [37, 0]'),
Text(246.09090291316738, 705.6346153846154, 'X[0] <= 0.207\ngini = 0.248\nsamples = 786\nvalue = [672, 114]'),
Text(87.03059388122377, 674.2730769230769, 'X[0] <= 0.195\ngini = 0.373\nsamples = 101\nvalue = [76, 25]'),
Text(80.33593281343732, 642.9115384615384, 'X[0] <= 0.073\ngini = 0.348\nsamples = 98\nvalue = [76, 22]'),
Text(66.94661067786443, 611.55, 'X[0] <= 0.072\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'),
Text(60.251949610077986, 580.1884615384615, 'X[2] <= 0.143\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(53.557288542291545, 548.8269230769231, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(66.94661067786443, 548.8269230769231, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(73.64127174565087, 580.1884615384615, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(93.7252549490102, 611.55, 'X[0] <= 0.085\ngini = 0.332\nsamples = 95\nvalue = [75, 20]'),
Text(87.03059388122377, 580.1884615384615, 'gini = 0.0\nsamples = 12\nvalue = [12, 0]'),
Text(100.41991601679665, 580.1884615384615, 'X[0] <= 0.089\ngini = 0.366\nsamples = 83\nvalue = [63, 20]'),
Text(93.7252549490102, 548.8269230769231, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(107.11457708458309, 548.8269230769231, 'X[2] <= 0.018\ngini = 0.356\nsamples = 82\nvalue = [63, 19]'),
Text(87.03059388122377, 517.4653846153847, 'X[1] <= 0.75\ngini = 0.117\nsamples = 16\nvalue = [15, 1]'),
Text(80.33593281343732, 486.1038461538461, 'gini = 0.0\nsamples = 13\nvalue = [13, 0]'),
Text(93.7252549490102, 486.1038461538461, 'X[0] <= 0.134\ngini = 0.444\nsamples = 3\nvalue = [2, 1]'),
Text(87.03059388122377, 454.7423076923077, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'),
Text(100.41991601679665, 454.7423076923077, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(127.19856028794241, 517.4653846153847, 'X[0] <= 0.19\ngini = 0.397\nsamples = 66\nvalue = [48, 18]'),
Text(120.50389922015597, 486.1038461538461, 'X[0] <= 0.178\ngini = 0.386\nsamples = 65\nvalue = [48, 17]'),
Text(113.80923815236953, 454.7423076923077, 'X[0] <= 0.176\ngini = 0.402\nsamples = 61\nvalue = [44, 17]'),
Text(107.11457708458309, 423.3807692307692, 'X[1] <= 0.75\ngini = 0.391\nsamples = 60\nvalue = [44, 16]'),
Text(75.31493701259748, 392.0192307692307, 'X[0] <= 0.097\ngini = 0.444\nsamples = 39\nvalue = [26, 13]'),
Text(68.62027594481104, 360.6576923076923, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(82.00959808038392, 360.6576923076923, 'X[2] <= 0.232\ngini = 0.418\nsamples = 37\nvalue = [26, 11]'),
Text(65.27294541091781, 329.2961538461538, 'X[0] <= 0.13\ngini = 0.346\nsamples = 27\nvalue = [21, 6]'),
Text(58.57828434313138, 297.9346153846153, 'gini = 0.0\nsamples = 10\nvalue = [10, 0]'),
Text(71.96760647870427, 297.9346153846153, 'X[0] <= 0.15\ngini = 0.457\nsamples = 17\nvalue = [11, 6]'),
Text(58.57828434313138, 266.5730769230769, 'X[0] <= 0.144\ngini = 0.494\nsamples = 9\nvalue = [4, 5]'),
Text(51.88362327534493, 235.21153846153845, 'X[0] <= 0.138\ngini = 0.49\nsamples = 7\nvalue = [4, 3]'),
Text(45.18896220755849, 203.85000000000002, 'X[0] <= 0.134\ngini = 0.48\nsamples = 5\nvalue = [2, 3]'),
Text(38.49430113977205, 172.48846153846148, 'X[0] <= 0.132\ngini = 0.444\nsamples = 3\nvalue = [2, 1]'),
Text(31.799640071985603, 141.12692307692305, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(45.18896220755849, 141.12692307692305, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'),
Text(51.88362327534493, 172.48846153846148, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(58.57828434313138, 203.85000000000002, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'),
Text(65.27294541091781, 235.21153846
```

Text(92.0515896820636, 235.21153846153845, 'X[0] <= 0.173\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(85.35692861427715, 203.85000000000002, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(98.74625074985003, 203.85000000000002, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(98.74625074985003, 329.2961538461538, 'X[0] <= 0.107\ngini = 0.5\nsamples = 10\nvalue = [5, 5]'),
Text(92.0515896820636, 297.9346153846153, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(105.44091181763648, 297.9346153846153, 'X[0] <= 0.152\ngini = 0.469\nsamples = 8\nvalue = [5, 3]'),
Text(98.74625074985003, 266.5730769230769, 'gini = 0.0\nsamples = 4\nvalue = [4, 0]'),
Text(112.13557288542292, 266.5730769230769, 'X[0] <= 0.17\ngini = 0.375\nsamples = 4\nvalue = [1, 3]'),
Text(105.44091181763648, 235.21153846153845, 'gini = 0.0\nsamples = 3\nvalue = [0, 3]'),
Text(118.83023395320936, 235.21153846153845, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(138.9142171565687, 392.0192307692307, 'X[2] <= 0.232\ngini = 0.245\nsamples = 21\nvalue = [18, 3]'),
Text(132.21955608878224, 360.6576923076923, 'X[0] <= 0.167\ngini = 0.397\nsamples = 11\nvalue = [8, 3]'),
Text(125.52489502099581, 329.2961538461538, 'X[0] <= 0.117\ngini = 0.32\nsamples = 10\nvalue = [8, 2]'),
Text(118.83023395320936, 297.9346153846153, 'gini = 0.0\nsamples = 4\nvalue = [4, 0]'),
Text(132.21955608878224, 297.9346153846153, 'X[0] <= 0.147\ngini = 0.444\nsamples = 6\nvalue = [4, 2]'),
Text(125.52489502099581, 266.5730769230769, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(138.9142171565687, 266.5730769230769, 'gini = 0.0\nsamples = 4\nvalue = [4, 0]'),
Text(138.9142171565687, 329.2961538461538, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(145.60887822435512, 360.6576923076923, 'gini = 0.0\nsamples = 10\nvalue = [10, 0]'),
Text(120.50389922015597, 423.3807692307692, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(127.19856028794241, 454.7423076923077, 'gini = 0.0\nsamples = 4\nvalue = [4, 0]'),
Text(133.89322135572885, 486.1038461538461, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(93.7252549490102, 642.9115384615384, 'gini = 0.0\nsamples = 3\nvalue = [0, 3]'),
Text(405.151211945111, 674.2730769230769, 'X[1] <= 0.75\ngini = 0.226\nsamples = 685\nvalue = [596, 89]'),
Text(258.4766796640672, 642.9115384615384, 'X[0] <= 0.258\ngini = 0.194\nsamples = 477\nvalue = [425, 52]'),
Text(251.78201859628075, 611.55, 'gini = 0.0\nsamples = 27\nvalue = [27, 0]'),
Text(265.17134073185366, 611.55, 'X[0] <= 0.306\ngini = 0.204\nsamples = 450\nvalue = [398, 52]'),
Text(177.4085829634073, 580.1884615384615, 'X[0] <= 0.293\ngini = 0.353\nsamples = 35\nvalue = [27, 8]'),
Text(153.9772045590882, 548.8269230769231, 'X[1] <= 0.25\ngini = 0.26\nsamples = 26\nvalue = [22, 4]'),
Text(147.28254349130174, 517.4653846153847, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(160.67186562687465, 517.4653846153847, 'X[0] <= 0.26\ngini = 0.211\nsamples = 25\nvalue = [22, 3]'),
Text(147.28254349130174, 486.1038461538461, 'X[2] <= 0.018\ngini = 0.48\nsamples = 5\nvalue = [3, 2]'),
Text(140.5878824235153, 454.7423076923077, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(153.9772045590882, 454.7423076923077, 'X[2] <= 0.071\ngini = 0.5\nsamples = 4\nvalue = [2, 2]'),
Text(147.28254349130174, 423.3807692307692, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(160.67186562687465, 423.3807692307692, 'X[0] <= 0.259\ngini = 0.444\nsamples = 3\nvalue = [2, 1]'),
Text(153.9772045590882, 392.0192307692307, 'gini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(167.36652669466108, 392.0192307692307, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(174.06118776244753, 486.1038461538461, 'X[2] <= 0.286\ngini = 0.095\nsamples = 20\nvalue = [19, 1]'),
Text(167.36652669466108, 454.7423076923077, 'gini = 0.0\nsamples = 17\nvalue = [17, 0]'),
Text(180.75584883023396, 454.7423076923077, 'X[0] <= 0.285\ngini = 0.444\nsamples = 3\nvalue = [2, 1]'),
Text(174.06118776244753, 423.3807692307692, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'),
Text(187.4505098980204, 423.3807692307692, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(200.8398320335933, 548.8269230769231, 'X[1] <= 0.25\ngini = 0.494\nsamples = 9\nvalue = [5, 4]'),
Text(194.14517096580684, 517.4653846153847, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'),
Text(207.53449310137972, 517.4653846153847, 'X[2] <= 0.018\ngini = 0.49\nsamples = 7\nvalue = [3, 4]'),
Text(200.8398320335933, 486.1038461538461, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(214.22915416916618, 486.1038461538461, 'X[2] <= 0.143\ngini = 0.48\nsamples = 5\nvalue = [3, 2]'),
Text(207.53449310137972, 454.7423076923077, 'X[0] <= 0.304\ngini = 0.5\nsamples = 4\nvalue = [2, 2]'),
Text(200.8398320335933, 423.3807692307692, 'gini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(214.22915416916618, 423.3807692307692, 'gini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(220.92381523695263, 454.7423076923077, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(352.93416316736653, 580.1884615384615, 'X[0] <= 0.963\ngini = 0.19\nsamples = 415\nvalue = [371, 44]'),
Text(346.2395020995801, 548.8269230769231, 'X[0] <= 0.952\ngini = 0.2\nsamples = 391\nvalue = [347, 44]'),
Text(332.8501799640072, 517.4653846153847, 'X[0] <= 0.912\ngini = 0.193\nsamples = 388\nvalue = [346, 42]'),
Text(326.15551889622077, 486.1038461538461, 'X[0] <= 0.911\ngini = 0.204\nsamples = 365\nvalue = [323, 42]'),
Text(319.4608578284343, 454.7423076923077, 'X[2] <= 0.018\ngini = 0.2\nsamples = 364\nvalue = [323, 41]'),
Text(227.61847630473906, 423.3807692307692, 'X[0] <= 0.716\ngini = 0.106\nsamples = 89\nvalue = [84, 5]'),
Text(220.92381523695263, 392.0192307692307, 'X[0] <= 0.708\ngini = 0.153\nsamples = 60\nvalue = [55, 5]'),
Text(214.22915416916618, 360.6576923076923, 'X[0] <= 0.637\ngini = 0.126\nsamples = 59\nvalue = [55, 4]'),
Text(190.79784043191364, 329.2961538461538, 'X[0] <= 0.379\ngini = 0.08\nsamples = 48\nvalue = [46, 2]'),
Text(177.40851829634073, 297.9346153846153, 'X[0] <= 0.369\ngini = 0.219\nsamples = 8\nvalue = [7, 1]'),
Text(170.7138573285543, 266.5730769230769, 'gini = 0.0\nsamples = 7\nvalue = [7, 0]'),
Text(184.1031793641272, 266.5730769230769, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(204.18716256748652, 297.9346153846153, 'X[0] <= 0.504\ngini = 0.049\nsamples = 40\nvalue = [39, 1]'),
Text(197.49250149970007, 266.5730769230769, 'X[0] <= 0.501\ngini = 0.095\nsamples = 20\nvalue = [19, 1]'),
Text(190.79784043191364, 235.21153846153845, 'gini = 0.0\nsamples = 19\nvalue = [19, 0]'),
Text(204.18716256748652, 235.21153846153845, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(210.88182363527295, 266.5730769230769, 'gini = 0.0\nsamples = 20\nvalue = [20, 0]'),
Text(237.66046790641872, 329.2961538461538, 'X[0] <= 0.65\ngini = 0.298\nsamples = 11\nvalue = [9, 2]'),
Text(230.9658068386323, 297.9346153846153, 'X[0] <= 0.643\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'),
Text(224.27114577084583, 266.5730769230769, 'gini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(237.66046790641872, 266.5730769230769, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(244.35512897420517, 297.9346153846153, 'gini = 0.0\nsamples = 8\nvalue = [8, 0]'),
Text(227.61847630473906, 360.6576923076923, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(234.3131373725552, 392.0192307692307, 'gini = 0.0\nsamples = 29\nvalue = [29, 0]'),
Text(411.3032393521296, 423.3807692307692, 'X[2] <= 0.304\ngini = 0.228\nsamples = 275\nvalue = [239, 36]'),
Text(357.3275344931014, 392.0192307692307, 'X[2] <= 0.268\ngini = 0.215\nsamples = 245\nvalue = [215, 30]'),
Text(350.632873425315, 360.6576923076923, 'X[0] <= 0.597\ngini = 0.239\nsamples = 216\nvalue = [186, 30]'),
Text(306.2807438512298, 329.2961538461538, 'X[0] <= 0.549\ngini = 0.299\nsamples = 93\nvalue = [76, 17]'),
Text(267.7864427114577, 297.9346153846153, 'X[2] <= 0.089\ngini = 0.235\nsamples = 81\nvalue = [70, 11]'),
Text(251.04979004199163, 266.5730769230769, 'X[0] <= 0.49\ngini = 0.346\nsamples = 27\nvalue = [21, 6]'),
Text(244.35512897420517, 235.21153846153845, 'X[0] <= 0.469\ngini = 0.408\nsamples = 21\nvalue = [15, 6]'),
Text(237.66046790641872, 203.85000000000002, 'X[2] <= 0.054\ngini = 0.375\nsamples = 20\nvalue = [15, 5]'),
Text(220.92381523695263, 172.48846153846148, 'X[0] <= 0.439\ngini = 0.245\nsamples = 14\nvalue = [12, 2]'),
Text(207.53449310137972, 141.12692307692305, 'X[0] <= 0.357\ngini = 0.153\nsamples = 12\nvalue = [11, 1]'),
Text(200.8398320335933, 109.76538461538462, 'gini = 0.0\nsamples = 6\nvalue = [6, 0]'),
Text(214.22915416916618, 79.76538461538462, 'X[0] <= 0.365\ngini = 0.278\nsamples = 6\nvalue = [5, 1]'),
Text(207.53449310137972, 78.40384615384608, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),

Text(220.92381523695263, 78.40384615384608, 'gini = 0.0\nsamples = 5\nvalue = [5, 0]'),
Text(234.31313737252552, 141.12692307692305, 'X[0] <= 0.449\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(227.61847630473906, 109.76538461538462, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(241.00779844031194, 109.76538461538462, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(254.39712057588483, 172.48846153846148, 'X[0] <= 0.378\ngini = 0.5\nsamples = 6\nvalue = [3, 3]'),
Text(247.7024595080984, 141.12692307692305, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(261.09178164367125, 141.12692307692305, 'X[0] <= 0.423\ngini = 0.375\nsamples = 4\nvalue = [3, 1]'),
Text(254.39712057588483, 109.76538461538462, 'X[0] <= 0.418\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(247.7024595080984, 78.40384615384608, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(261.09178164367125, 78.40384615384608, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(267.7864427114577, 109.76538461538462, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'),
Text(251.04979004199163, 203.85000000000002, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(257.7444511097781, 235.21153846153845, 'gini = 0.0\nsamples = 6\nvalue = [6, 0]'),
Text(284.52309538092385, 266.5730769230769, 'X[1] <= 0.25\ngini = 0.168\nsamples = 54\nvalue = [49, 5]'),
Text(271.13377324535094, 235.21153846153845, 'X[2] <= 0.161\ngini = 0.48\nsamples = 5\nvalue = [3, 2]'),
Text(264.4391121775645, 203.85000000000002, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'),
Text(277.8284343131374, 203.85000000000002, 'X[0] <= 0.509\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'),
Text(271.13377324535094, 172.48846153846148, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(284.52309538092385, 172.48846153846148, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(297.9124175164967, 235.21153846153845, 'X[0] <= 0.397\ngini = 0.115\nsamples = 49\nvalue = [46, 3]'),
Text(291.21775644871025, 203.85000000000002, 'gini = 0.0\nsamples = 21\nvalue = [21, 0]'),
Text(304.60707858428316, 203.85000000000002, 'X[0] <= 0.401\ngini = 0.191\nsamples = 28\nvalue = [25, 3]'),
Text(297.9124175164967, 172.48846153846148, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(311.3017396520696, 172.48846153846148, 'X[2] <= 0.161\ngini = 0.137\nsamples = 27\nvalue = [25, 2]'),
Text(304.60707858428316, 141.12692307692305, 'gini = 0.0\nsamples = 12\nvalue = [12, 0]'),
Text(317.99640071985607, 141.12692307692305, 'X[2] <= 0.232\ngini = 0.231\nsamples = 15\nvalue = [13, 2]'),
Text(311.3017396520696, 109.76538461538462, 'X[0] <= 0.501\ngini = 0.298\nsamples = 11\nvalue = [9, 2]'),
Text(297.9124175164967, 78.40384615384608, 'X[0] <= 0.454\ngini = 0.198\nsamples = 9\nvalue = [8, 1]'),
Text(291.21775644871025, 47.042307692307645, 'X[0] <= 0.425\ngini = 0.375\nsamples = 4\nvalue = [3, 1]'),
Text(284.52309538092385, 15.680769230769215, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]'),
Text(297.9124175164967, 15.680769230769215, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(304.60707858428316, 47.042307692307645, 'gini = 0.0\nsamples = 5\nvalue = [5, 0]'),
Text(324.69106178764247, 78.40384615384608, 'X[0] <= 0.516\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(317.99640071985607, 47.042307692307645, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(331.3857228554289, 47.042307692307645, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(324.69106178764247, 109.76538461538462, 'gini = 0.0\nsamples = 4\nvalue = [4, 0]'),
Text(344.77504499100183, 297.9346153846153, 'X[0] <= 0.579\ngini = 0.5\nsamples = 12\nvalue = [6, 6]'),
Text(331.3857228554289, 266.5730769230769, 'X[2] <= 0.089\ngini = 0.408\nsamples = 7\nvalue = [2, 5]'),
Text(324.69106178764247, 235.21153846153845, 'X[0] <= 0.561\ngini = 0.5\nsamples = 4\nvalue = [2, 2]'),
Text(317.99640071985607, 203.85000000000002, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(331.3857228554289, 203.85000000000002, 'X[0] <= 0.566\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'),
Text(324.69106178764247, 172.48846153846148, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(338.0803839232154, 172.48846153846148, 'X[0] <= 0.571\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(331.3857228554289, 141.12692307692305, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(344.77504499100183, 141.12692307692305, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(338.0803839232154, 235.21153846153845, 'gini = 0.0\nsamples = 3\nvalue = [0, 3]'),
Text(358.1643671265747, 266.5730769230769, 'X[0] <= 0.592\ngini = 0.32\nsamples = 5\nvalue = [4, 1]'),
Text(351.4697060587883, 235.21153846153845, 'gini = 0.0\nsamples = 4\nvalue = [4, 0]'),
Text(364.85902819436114, 235.21153846153845, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(394.98500299940014, 329.2961538461538, 'X[0] <= 0.697\ngini = 0.189\nsamples = 123\nvalue = [110, 13]'),
Text(378.24835032993406, 297.9346153846153, 'X[0] <= 0.646\ngini = 0.05\nsamples = 39\nvalue = [38, 1]'),
Text(371.5536892621476, 266.5730769230769, 'gini = 0.0\nsamples = 23\nvalue = [23, 0]'),
Text(384.94301139772045, 266.5730769230769, 'X[0] <= 0.648\ngini = 0.117\nsamples = 16\nvalue = [15, 1]'),
Text(378.24835032993406, 235.21153846153845, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(391.6376724655069, 235.21153846153845, 'gini = 0.0\nsamples = 15\nvalue = [15, 0]'),
Text(411.7216556688663, 297.9346153846153, 'X[0] <= 0.71\ngini = 0.245\nsamples = 84\nvalue = [72, 12]'),
Text(405.0269946010798, 266.5730769230769, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(418.4163167366527, 266.5730769230769, 'X[0] <= 0.829\ngini = 0.214\nsamples = 82\nvalue = [72, 10]'),
Text(405.0269946010798, 235.21153846153845, 'X[0] <= 0.824\ngini = 0.278\nsamples = 42\nvalue = [35, 7]'),
Text(398.33233353329337, 203.85000000000002, 'X[0] <= 0.816\ngini = 0.219\nsamples = 40\nvalue = [35, 5]'),
Text(379.92201559688067, 172.48846153846148, 'X[0] <= 0.759\ngini = 0.193\nsamples = 37\nvalue = [33, 4]'),
Text(363.18536292741453, 141.12692307692305, 'X[0] <= 0.748\ngini = 0.32\nsamples = 15\nvalue = [12, 3]'),
Text(349.7960407918417, 109.76538461538462, 'X[2] <= 0.161\ngini = 0.165\nsamples = 11\nvalue = [10, 1]'),
Text(343.1013797240552, 78.40384615384608, 'gini = 0.0\nsamples = 5\nvalue = [5, 0]'),
Text(356.4907018596281, 78.40384615384608, 'X[2] <= 0.196\ngini = 0.278\nsamples = 6\nvalue = [5, 1]'),
Text(349.7960407918417, 47.042307692307645, 'X[0] <= 0.736\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(343.1013797240552, 15.680769230769215, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(356.4907018596281, 15.680769230769215, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(363.18536292741453, 47.042307692307645, 'gini = 0.0\nsamples = 4\nvalue = [4, 0]'),
Text(376.57468506298744, 109.76538461538462, 'X[2] <= 0.089\ngini = 0.5\nsamples = 4\nvalue = [2, 2]'),
Text(369.880023995201, 78.40384615384608, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(383.26934613077384, 78.40384615384608, 'X[2] <= 0.214\ngini = 0.444\nsamples = 3\nvalue = [2, 1]'),
Text(376.57468506298744, 47.042307692307645, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'),
Text(389.9640071985603, 47.042307692307645, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(396.65866826634675, 141.12692307692305, 'X[0] <= 0.799\ngini = 0.087\nsamples = 22\nvalue = [21, 1]'),
Text(389.9640071985603, 109.76538461538462, 'gini = 0.0\nsamples = 13\nvalue = [13, 0]'),
Text(403.3533293341332, 109.76538461538462, 'X[0] <= 0.8\ngini = 0.198\nsamples = 9\nvalue = [8, 1]'),
Text(396.65866826634675, 78.40384615384608, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(410.04799040191966, 78.40384615384608, 'gini = 0.0\nsamples = 8\nvalue = [8, 0]'),
Text(416.74265146970606, 172.48846153846148, 'X[0] <= 0.818\ngini = 0.444\nsamples = 3\nvalue = [2, 1]'),
Text(410.04799040191966, 141.12692307692305, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(423.4373125374925, 141.12692307692305, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'),
Text(411.7216556688663, 203.85000000000002, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(431.8056388722256, 235.21153846153845, 'X[0] <= 0.87\ngini = 0.139\nsamples = 40\nvalue = [37, 3]'),
Text(425.11097780443913, 203.85000000000002, 'gini = 0.0\nsamples = 20\nvalue = [20, 0]'),
Text(438.50029994001204, 203.85000000000002, 'X[0] <= 0.873\ngini = 0.255\nsamples = 20\nvalue = [17, 3]'),
Text(431.8056388722256, 172.48846153846148, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(445.19496100779844, 172.48846153846148, 'X[0] <= 0.879\ngini = 0.188\nsamples = 19\nvalue = [17, 2]'),
Text(438.50029994001204, 141.12692307692305, 'X[2] <= 0.089\ngini = 0.346\nsamples = 9\nvalue = [7, 2]'),

Text(431.8056388722256, 109.76538461538462, 'gini = 0.0\nsamples = 6\nvalue = [6, 0]'),
Text(445.19496100779844, 109.76538461538462, 'X[2] <= 0.161\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'),
Text(438.50029994001204, 78.40384615384608, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(451.8896220755849, 78.40384615384608, 'gini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(451.8896220755849, 141.12692307692305, 'gini = 0.0\nsamples = 10\nvalue = [10, 0]'),
Text(364.02219556088784, 360.6576923076923, 'gini = 0.0\nsamples = 29\nvalue = [29, 0]'),
Text(465.2789442111578, 392.0192307692307, 'X[0] <= 0.881\ngini = 0.32\nsamples = 30\nvalue = [24, 6]'),
Text(458.58428314337135, 360.6576923076923, 'X[0] <= 0.71\ngini = 0.245\nsamples = 28\nvalue = [24, 4]'),
Text(445.19496100779844, 329.2961538461538, 'X[0] <= 0.365\ngini = 0.111\nsamples = 17\nvalue = [16, 1]'),
Text(438.50029994001204, 297.9346153846153, 'X[0] <= 0.346\ngini = 0.375\nsamples = 4\nvalue = [3, 1]'),
Text(431.8056388722256, 266.5730769230769, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]'),
Text(445.19496100779844, 266.5730769230769, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(451.8896220755849, 297.9346153846153, 'gini = 0.0\nsamples = 13\nvalue = [13, 0]'),
Text(471.97360527894426, 329.2961538461538, 'X[0] <= 0.746\ngini = 0.397\nsamples = 11\nvalue = [8, 3]'),
Text(465.2789442111578, 297.9346153846153, 'gini = 0.0\nsamples = 3\nvalue = [0, 3]'),
Text(478.66826634673066, 297.9346153846153, 'gini = 0.0\nsamples = 8\nvalue = [8, 0]'),
Text(471.97360527894426, 360.6576923076923, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(332.8501799640072, 454.7423076923077, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(339.5448410317937, 486.1038461538461, 'gini = 0.0\nsamples = 23\nvalue = [23, 0]'),
Text(359.628824235153, 517.4653846153847, 'X[2] <= 0.214\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'),
Text(352.93416316736653, 486.1038461538461, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(366.32348530293945, 486.1038461538461, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(359.628824235153, 548.8269230769231, 'gini = 0.0\nsamples = 24\nvalue = [24, 0]'),
Text(551.8257442261548, 642.9115384615384, 'X[0] <= 0.234\ngini = 0.292\nsamples = 208\nvalue = [171, 37]'),
Text(518.8362327534494, 611.55, 'X[0] <= 0.223\ngini = 0.5\nsamples = 6\nvalue = [3, 3]'),
Text(512.1415716856629, 580.1884615384615, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]'),
Text(525.5308938212357, 580.1884615384615, 'gini = 0.0\nsamples = 3\nvalue = [0, 3]'),
Text(584.8152556988603, 611.55, 'X[2] <= 0.018\ngini = 0.28\nsamples = 202\nvalue = [168, 34]'),
Text(538.9202159568086, 580.1884615384615, 'X[0] <= 0.948\ngini = 0.422\nsamples = 33\nvalue = [23, 10]'),
Text(532.2255548890222, 548.8269230769231, 'X[0] <= 0.724\ngini = 0.404\nsamples = 32\nvalue = [23, 9]'),
Text(525.5308938212357, 517.4653846153847, 'X[0] <= 0.608\ngini = 0.444\nsamples = 27\nvalue = [18, 9]'),
Text(512.1415716856629, 486.1038461538461, 'X[0] <= 0.475\ngini = 0.363\nsamples = 21\nvalue = [16, 5]'),
Text(505.4469106178764, 454.7423076923077, 'X[0] <= 0.443\ngini = 0.486\nsamples = 12\nvalue = [7, 5]'),
Text(498.75224955009, 423.3807692307692, 'X[0] <= 0.344\ngini = 0.42\nsamples = 10\nvalue = [7, 3]'),
Text(492.0575884823036, 392.0192307692307, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'),
Text(505.4469106178764, 392.0192307692307, 'X[0] <= 0.364\ngini = 0.469\nsamples = 8\nvalue = [5, 3]'),
Text(498.75224955009, 360.6576923076923, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(512.1415716856629, 360.6576923076923, 'X[0] <= 0.378\ngini = 0.408\nsamples = 7\nvalue = [5, 2]'),
Text(498.75224955009, 329.2961538461538, 'X[0] <= 0.372\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(492.0575884823036, 297.9346153846153, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(505.4469106178764, 297.9346153846153, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(525.5308938212357, 329.2961538461538, 'X[0] <= 0.403\ngini = 0.32\nsamples = 5\nvalue = [4, 1]'),
Text(518.8362327534494, 297.9346153846153, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]'),
Text(532.2255548890222, 297.9346153846153, 'X[0] <= 0.417\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(525.5308938212357, 266.5730769230769, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(538.9202159568086, 266.5730769230769, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(512.1415716856629, 423.3807692307692, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(518.8362327534494, 454.7423076923077, 'gini = 0.0\nsamples = 9\nvalue = [9, 0]'),
Text(538.9202159568086, 486.1038461538461, 'X[0] <= 0.636\ngini = 0.444\nsamples = 6\nvalue = [2, 4]'),
Text(532.2255548890222, 454.7423076923077, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(545.6148770245951, 454.7423076923077, 'X[0] <= 0.671\ngini = 0.5\nsamples = 4\nvalue = [2, 2]'),
Text(538.9202159568086, 423.3807692307692, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(552.3095380923816, 423.3807692307692, 'X[0] <= 0.696\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'),
Text(545.6148770245951, 392.0192307692307, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(559.004199160168, 392.0192307692307, 'X[0] <= 0.711\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(552.3095380923816, 360.6576923076923, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(565.6988602279545, 360.6576923076923, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(538.9202159568086, 517.4653846153847, 'gini = 0.0\nsamples = 5\nvalue = [5, 0]'),
Text(545.6148770245951, 548.8269230769231, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(630.7102954409119, 580.1884615384615, 'X[2] <= 0.054\ngini = 0.244\nsamples = 169\nvalue = [145, 24]'),
Text(585.7828434313137, 548.8269230769231, 'X[0] <= 0.937\ngini = 0.091\nsamples = 42\nvalue = [40, 2]'),
Text(572.3935212957409, 517.4653846153847, 'X[0] <= 0.289\ngini = 0.049\nsamples = 40\nvalue = [39, 1]'),
Text(565.6988602279545, 486.1038461538461, 'X[0] <= 0.285\ngini = 0.375\nsamples = 4\nvalue = [3, 1]'),
Text(559.004199160168, 454.7423076923077, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]'),
Text(572.3935212957409, 454.7423076923077, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(579.0881823635274, 486.1038461538461, 'gini = 0.0\nsamples = 36\nvalue = [36, 0]'),
Text(599.1721655668866, 517.4653846153847, 'X[0] <= 0.944\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(592.4775044991002, 486.1038461538461, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(605.8668266346731, 486.1038461538461, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(675.6377474505099, 548.8269230769231, 'X[0] <= 0.422\ngini = 0.286\nsamples = 127\nvalue = [105, 22]'),
Text(632.6454709058189, 517.4653846153847, 'X[2] <= 0.089\ngini = 0.133\nsamples = 28\nvalue = [26, 2]'),
Text(619.256148770246, 486.1038461538461, 'X[0] <= 0.315\ngini = 0.375\nsamples = 4\nvalue = [3, 1]'),
Text(612.5614877024595, 454.7423076923077, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'),
Text(625.9508098380325, 454.7423076923077, 'X[0] <= 0.344\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(619.256148770246, 423.3807692307692, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(632.6454709058189, 423.3807692307692, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(646.0347930413917, 486.1038461538461, 'X[2] <= 0.25\ngini = 0.08\nsamples = 24\nvalue = [23, 1]'),
Text(639.3401319736054, 454.7423076923077, 'gini = 0.0\nsamples = 15\nvalue = [15, 0]'),
Text(652.7294541091782, 454.7423076923077, 'X[2] <= 0.304\ngini = 0.198\nsamples = 9\nvalue = [8, 1]'),
Text(646.0347930413917, 423.3807692307692, 'X[0] <= 0.354\ngini = 0.444\nsamples = 3\nvalue = [2, 1]'),
Text(639.3401319736054, 392.0192307692307, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(652.7294541091782, 392.0192307692307, 'X[0] <= 0.389\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(646.0347930413917, 360.6576923076923, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(659.4241151769646, 360.6576923076923, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(659.4241151769646, 423.3807692307692, 'gini = 0.0\nsamples = 6\nvalue = [6, 0]'),
Text(718.630023995201, 517.4653846153847, 'X[0] <= 0.478\ngini = 0.322\nsamples = 99\nvalue = [79, 20]'),
Text(686.2027594481104, 486.1038461538461, 'X[0] <= 0.454\ngini = 0.49\nsamples = 7\nvalue = [3, 4]'),
Text(679.508098380324, 454.7423076923077, 'X[0] <= 0.441\ngini = 0.48\nsamples = 5\nvalue = [3, 2]'),
Text(672.8134373125375, 423.3807692307692, 'X[2] <= 0.143\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'),

Text(666.1187762447511, 392.0192307692307, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(679.508098380324, 392.0192307692307, 'X[0] <= 0.429\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(672.8134373125375, 360.6576923076923, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
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Text(744.3626274745052, 454.7423076923077, 'gini = 0.0\nsamples = 11\nvalue = [11, 0]'),
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Text(706.2867426514697, 392.0192307692307, 'X[0] <= 0.848\ngini = 0.361\nsamples = 55\nvalue = [42, 13]'),
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Text(675.3239352129574, 297.9346153846153, 'X[0] <= 0.762\ngini = 0.32\nsamples = 5\nvalue = [4, 1]'),
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Text(730.5548890221957, 299.2961538461538, 'X[2] <= 0.125\ngini = 0.369\nsamples = 45\nvalue = [34, 11]'),
Text(702.1025794841032, 297.9346153846153, 'X[0] <= 0.586\ngini = 0.5\nsamples = 6\nvalue = [3, 3]'),
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Text(702.1025794841032, 235.21153846153845, 'X[0] <= 0.643\ngini = 0.375\nsamples = 4\nvalue = [1, 3]'),
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Text(722.1865626874626, 141.12692307692305, 'X[0] <= 0.693\ngini = 0.375\nsamples = 4\nvalue = [3, 1]'),
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Text(712.9814037192561, 360.6576923076923, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
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Text(809.2171565686863, 297.9346153846153, 'X[0] <= 0.898\ngini = 0.444\nsamples = 3\nvalue = [2, 1]'),
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Text(1121.839522720456, 768.3576923076923, 'X[0] <= 0.659\ngini = 0.335\nsamples = 329\nvalue = [259, 70]'),
Text(923.9939824535094, 736.9961538461538, 'X[1] <= 0.25\ngini = 0.374\nsamples = 221\nvalue = [166, 55]'),
Text(829.3011397720456, 705.6346153846154, 'X[2] <= 0.804\ngini = 0.496\nsamples = 11\nvalue = [5, 6]'),
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Text(809.2171565686863, 611.55, 'X[0] <= 0.171\ngini = 0.375\nsamples = 4\nvalue = [1, 3]'),
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Text(893.4234403119376, 674.2730769230769, 'X[0] <= 0.651\ngini = 0.293\nsamples = 140\nvalue = [115, 25]'),
Text(886.7287792441513, 642.9115384615384, 'X[2] <= 0.446\ngini = 0.286\nsamples = 139\nvalue = [115, 24]'),
Text(880.0341181763648, 611.55, 'gini = 0.0\nsamples = 13\nvalue = [13, 0]'),
Text(893.4234403119376, 611.55, 'X[2] <= 0.482\ngini = 0.308\nsamples = 126\nvalue = [102, 24]'),

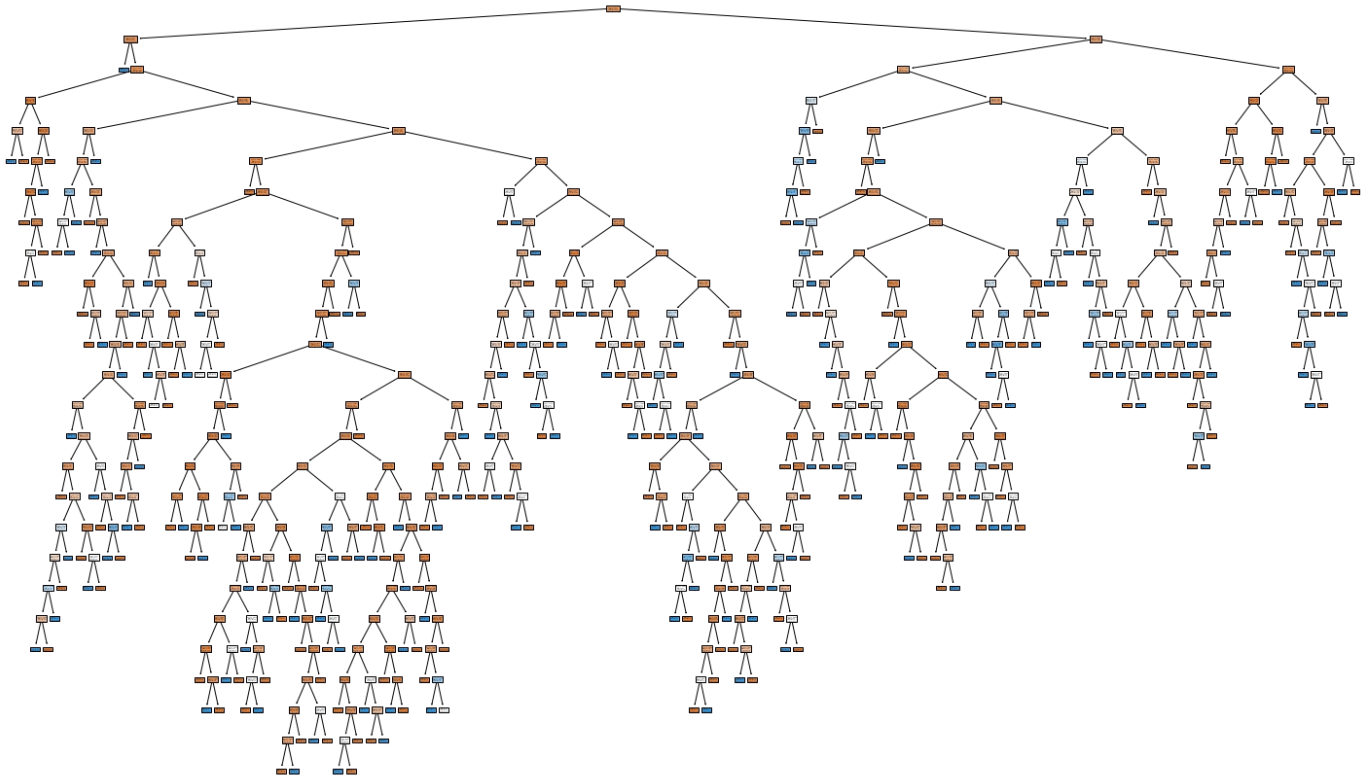
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Text(1033.488302339532, 454.7423076923077, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(1060.266946610678, 517.4653846153847, 'X[0] <= 0.588\ngini = 0.133\nsamples = 14\nvalue = [13, 1]'),
Text(1053.5722855428914, 486.1038461538461, 'X[0] <= 0.579\ngini = 0.375\nsamples = 4\nvalue = [3, 1]'),
Text(1046.877624475105, 454.7423076923077, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]'),
Text(1060.266946610678, 454.7423076923077, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1066.9616076784644, 486.1038461538461, 'gini = 0.0\nsamples = 10\nvalue = [10, 0]'),
Text(900.1181013797241, 642.9115384615384, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1143.9502099580084, 674.2730769230769, 'X[0] <= 0.166\ngini = 0.451\nsamples = 70\nvalue = [46, 24]'),
Text(1107.129574085183, 642.9115384615384, 'X[0] <= 0.143\ngini = 0.499\nsamples = 19\nvalue = [9, 10]'),

Text(1100.4349130173966, 611.55, 'X[2] <= 0.446\ngini = 0.492\nsamples = 16\nvalue = [9, 7]'),
Text(1087.0455908818237, 580.1884615384615, 'X[0] <= 0.025\ngini = 0.375\nsamples = 4\nvalue = [1, 3]'),
Text(1080.3509298140373, 548.8269230769231, 'X[0] <= 0.01\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(1073.6562687462508, 517.4653846153847, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1087.0455908818237, 517.4653846153847, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(1093.7402519496102, 548.8269230769231, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(1113.8242351529695, 580.1884615384615, 'X[2] <= 0.518\ngini = 0.444\nsamples = 12\nvalue = [8, 4]'),
Text(1107.129574085183, 548.8269230769231, 'gini = 0.0\nsamples = 4\nvalue = [4, 0]'),
Text(1120.518896220756, 548.8269230769231, 'X[0] <= 0.04\ngini = 0.5\nsamples = 8\nvalue = [4, 4]'),
Text(1113.8242351529695, 517.4653846153847, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(1127.2135572885425, 517.4653846153847, 'X[2] <= 0.875\ngini = 0.444\nsamples = 6\nvalue = [4, 2]'),
Text(1120.518896220756, 486.1038461538461, 'X[0] <= 0.095\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'),
Text(1113.8242351529695, 454.7423076923077, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1127.2135572885425, 454.7423076923077, 'X[2] <= 0.786\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(1120.518896220756, 423.3807692307692, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(1133.9082183563287, 423.3807692307692, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1133.9082183563287, 486.1038461538461, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]'),
Text(1113.8242351529695, 611.55, 'gini = 0.0\nsamples = 3\nvalue = [0, 3]'),
Text(1180.7708458308339, 642.9115384615384, 'X[0] <= 0.214\ngini = 0.398\nsamples = 51\nvalue = [37, 14]'),
Text(1174.0761847630474, 611.55, 'gini = 0.0\nsamples = 6\nvalue = [6, 0]'),
Text(1187.4655068986203, 611.55, 'X[0] <= 0.222\ngini = 0.429\nsamples = 45\nvalue = [31, 14]'),
Text(1180.7708458308339, 580.1884615384615, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(1194.1601679664068, 580.1884615384615, 'X[2] <= 0.946\ngini = 0.402\nsamples = 43\nvalue = [31, 12]'),
Text(1187.4655068986203, 548.8269230769231, 'X[2] <= 0.625\ngini = 0.432\nsamples = 38\nvalue = [26, 12]'),
Text(1160.6868626274745, 517.4653846153847, 'X[2] <= 0.411\ngini = 0.32\nsamples = 15\nvalue = [12, 3]'),
Text(1147.2975404919016, 486.1038461538461, 'X[0] <= 0.237\ngini = 0.5\nsamples = 4\nvalue = [2, 2]'),
Text(1140.6028794241151, 454.7423076923077, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(1153.992201559688, 454.7423076923077, 'X[0] <= 0.377\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'),
Text(1147.2975404919016, 423.3807692307692, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1160.6868626274745, 423.3807692307692, 'X[0] <= 0.531\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(1153.992201559688, 392.0192307692307, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(1167.381523695261, 392.0192307692307, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1174.0761847630474, 486.1038461538461, 'X[0] <= 0.458\ngini = 0.165\nsamples = 11\nvalue = [10, 1]'),
Text(1167.381523695261, 454.7423076923077, 'gini = 0.0\nsamples = 8\nvalue = [8, 0]'),
Text(1180.7708458308339, 454.7423076923077, 'X[0] <= 0.497\ngini = 0.444\nsamples = 3\nvalue = [2, 1]'),
Text(1174.0761847630474, 423.3807692307692, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1187.4655068986203, 423.3807692307692, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'),
Text(1214.2441511697662, 517.4653846153847, 'X[0] <= 0.358\ngini = 0.476\nsamples = 23\nvalue = [14, 9]'),
Text(1200.8548290341932, 486.1038461538461, 'X[2] <= 0.786\ngini = 0.469\nsamples = 8\nvalue = [3, 5]'),
Text(1194.1601679664068, 454.7423076923077, 'gini = 0.0\nsamples = 4\nvalue = [0, 4]'),
Text(1207.5494901017979, 454.7423076923077, 'X[0] <= 0.333\ngini = 0.375\nsamples = 4\nvalue = [3, 1]'),
Text(1200.8548290341932, 423.3807692307692, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]'),
Text(1214.2441511697662, 423.3807692307692, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1227.633473305339, 486.1038461538461, 'X[2] <= 0.661\ngini = 0.391\nsamples = 15\nvalue = [11, 4]'),
Text(1220.9388122375526, 454.7423076923077, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1234.3281343731255, 454.7423076923077, 'X[2] <= 0.911\ngini = 0.337\nsamples = 14\nvalue = [11, 3]'),
Text(1227.633473305339, 423.3807692307692, 'X[0] <= 0.457\ngini = 0.26\nsamples = 13\nvalue = [11, 2]'),
Text(1220.9388122375526, 392.0192307692307, 'gini = 0.0\nsamples = 7\nvalue = [7, 0]'),
Text(1234.3281343731255, 392.0192307692307, 'X[0] <= 0.481\ngini = 0.444\nsamples = 6\nvalue = [4, 2]'),
Text(1227.633473305339, 360.6576923076923, 'X[2] <= 0.786\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'),
Text(1220.9388122375526, 329.2961538461538, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(1234.3281343731255, 329.2961538461538, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(1241.022795440912, 360.6576923076923, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]'),
Text(1241.022795440912, 423.3807692307692, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1200.8548290341932, 548.8269230769231, 'gini = 0.0\nsamples = 5\nvalue = [5, 0]'),
Text(1319.6850629874025, 736.9961538461538, 'X[0] <= 0.879\ngini = 0.239\nsamples = 108\nvalue = [93, 15]'),
Text(1284.5380923815237, 705.6346153846154, 'X[2] <= 0.554\ngini = 0.117\nsamples = 64\nvalue = [60, 4]'),
Text(1261.1067786442711, 674.2730769230769, 'X[2] <= 0.482\ngini = 0.255\nsamples = 20\nvalue = [17, 3]'),
Text(1254.412117576485, 642.9115384615384, 'gini = 0.0\nsamples = 8\nvalue = [8, 0]'),
Text(1267.8014397120576, 642.9115384615384, 'X[0] <= 0.841\ngini = 0.375\nsamples = 12\nvalue = [9, 3]'),
Text(1254.412117576485, 611.55, 'X[0] <= 0.734\ngini = 0.32\nsamples = 10\nvalue = [8, 2]'),
Text(1247.7174565086984, 580.1884615384615, 'X[0] <= 0.732\ngini = 0.444\nsamples = 6\nvalue = [4, 2]'),
Text(1241.022795440912, 548.8269230769231, 'X[1] <= 0.75\ngini = 0.32\nsamples = 5\nvalue = [4, 1]'),
Text(1234.3281343731255, 517.4653846153847, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]'),
Text(1247.7174565086984, 517.4653846153847, 'X[0] <= 0.683\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(1241.022795440912, 486.1038461538461, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(1254.412117576485, 486.1038461538461, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1254.412117576485, 548.8269230769231, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1261.1067786442711, 580.1884615384615, 'gini = 0.0\nsamples = 4\nvalue = [4, 0]'),
Text(1281.1907618476305, 611.55, 'X[0] <= 0.846\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(1274.496100779844, 580.1884615384615, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1287.885422915417, 580.1884615384615, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(1307.9694061187763, 674.2730769230769, 'X[0] <= 0.764\ngini = 0.044\nsamples = 44\nvalue = [43, 1]'),
Text(1301.2747450509898, 642.9115384615384, 'X[0] <= 0.757\ngini = 0.124\nsamples = 15\nvalue = [14, 1]'),
Text(1294.5800839832034, 611.55, 'gini = 0.0\nsamples = 14\nvalue = [14, 0]'),
Text(1307.9694061187763, 611.55, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1314.6640671865628, 642.9115384615384, 'gini = 0.0\nsamples = 29\nvalue = [29, 0]'),
Text(1354.8320335932815, 705.6346153846154, 'X[0] <= 0.886\ngini = 0.375\nsamples = 44\nvalue = [33, 11]'),
Text(1348.137372525495, 674.2730769230769, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(1361.526694661068, 674.2730769230769, 'X[0] <= 0.981\ngini = 0.337\nsamples = 42\nvalue = [33, 9]'),
Text(1341.4427114577086, 642.9115384615384, 'X[2] <= 0.661\ngini = 0.278\nsamples = 36\nvalue = [30, 6]'),
Text(1321.3587282543492, 611.55, 'X[0] <= 0.902\ngini = 0.426\nsamples = 13\nvalue = [9, 4]'),
Text(1314.6640671865628, 580.1884615384615, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]'),
Text(1328.0533893221357, 580.1884615384615, 'X[2] <= 0.518\ngini = 0.48\nsamples = 10\nvalue = [6, 4]'),
Text(1321.3587282543492, 548.8269230769231, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]'),
Text(1334.7480503899221, 548.8269230769231, 'X[0] <= 0.908\ngini = 0.49\nsamples = 7\nvalue = [3, 4]'),
Text(1328.0533893221357, 517.4653846153847, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1341.4427114577086, 517.4653846153847, 'X[2] <= 0.625\ngini = 0.5\nsamples = 6\nvalue = [3, 3]'),
Text(1334.7480503899221, 486.1038461538461, 'X[0] <= 0.923\ngini = 0.48\nsamples = 5\nvalue = [2, 3]'),


```

Text(1328.0533893221357, 454.7423076923077, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(1341.4427114577086, 454.7423076923077, 'X[2] <= 0.589\ngini = 0.375\nsamples = 4\nvalue = [1, 3]'),
Text(1334.7480503899221, 423.3807692307692, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
Text(1348.137372525495, 423.3807692307692, 'X[0] <= 0.949\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(1341.4427114577086, 392.0192307692307, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1354.8320335932815, 392.0192307692307, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(1348.137372525495, 486.1038461538461, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(1361.526694661068, 611.55, 'X[0] <= 0.906\ngini = 0.159\nsamples = 23\nvalue = [21, 2]'),
Text(1354.8320335932815, 580.1884615384615, 'X[0] <= 0.898\ngini = 0.375\nsamples = 8\nvalue = [6, 2]'),
Text(1348.137372525495, 548.8269230769231, 'gini = 0.0\nsamples = 5\nvalue = [5, 0]'),
Text(1361.526694661068, 548.8269230769231, 'X[0] <= 0.899\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'),
Text(1354.8320335932815, 517.4653846153847, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1368.2213557288544, 517.4653846153847, 'X[0] <= 0.902\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(1361.526694661068, 486.1038461538461, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(1374.9160167966409, 486.1038461538461, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'),
Text(1368.2213557288544, 580.1884615384615, 'gini = 0.0\nsamples = 15\nvalue = [15, 0]'),
Text(1381.610677864427, 642.9115384615384, 'X[0] <= 0.988\ngini = 0.5\nsamples = 6\nvalue = [3, 3]'),
Text(1374.9160167966409, 611.55, 'gini = 0.0\nsamples = 3\nvalue = [0, 3]'),
Text(1388.3053389322135, 611.55, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]')

```



```

In [58]: from sklearn.model_selection import GridSearchCV
parameter={
    'criterion':['gini','entropy'],
    'splitter':['best','random'],
    'max_depth':[1,2,3,4,5],
    'max_features':['auto', 'sqrt', 'log2']
}

```

```

In [59]: grid_search=GridSearchCV(estimator=dtc,param_grid=parameter,cv=5,scoring="accuracy")

```

```

In [60]: grid_search.fit(x_train,y_train)

```

```

Out[60]: GridSearchCV(cv=5, estimator=DecisionTreeClassifier(),
    param_grid={'criterion': ['gini', 'entropy'],
    'max_depth': [1, 2, 3, 4, 5],
    'max_features': ['auto', 'sqrt', 'log2'],
    'splitter': ['best', 'random']},
    scoring='accuracy')

```

```

In [61]: grid_search.best_params_

```

```

Out[61]: {'criterion': 'entropy',
    'max_depth': 5,
    'max_features': 'log2',

```

```
'splitter': 'best'}
```

```
In [62]: dtc_cv=DecisionTreeClassifier(criterion= 'entropy',
    max_depth=3,
    max_features='sqrt',
    splitter='best')
dtc_cv.fit(x_train,y_train)
```

```
Out[62]: DecisionTreeClassifier(criterion='entropy', max_depth=3, max_features='sqrt')
```

```
In [63]: pred=dtc_cv.predict(x_test)
```

```
In [64]: print(classification_report(y_test,pred))
```

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| No | 0.83 | 1.00 | 0.91 | 245 |
| Yes | 0.00 | 0.00 | 0.00 | 49 |
| accuracy | | | 0.83 | 294 |
| macro avg | 0.42 | 0.50 | 0.45 | 294 |
| weighted avg | 0.69 | 0.83 | 0.76 | 294 |

```
C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1248: UndefinedMetricWarni
ng: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_div
ision` parameter to control this behavior.
  _warn_prf(average, modifier, msg_start, len(result))
C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1248: UndefinedMetricWarni
ng: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_div
ision` parameter to control this behavior.
  _warn_prf(average, modifier, msg_start, len(result))
C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1248: UndefinedMetricWarni
ng: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_div
ision` parameter to control this behavior.
  _warn_prf(average, modifier, msg_start, len(result))
```

Random Forest

```
In [65]: from sklearn.ensemble import RandomForestClassifier
rfc=RandomForestClassifier()
```

```
In [66]: forest_params = [{'max_depth': list(range(10, 15)), 'max_features': list(range(0,14))}]
```

```
In [67]: rfc_cv= GridSearchCV(rfc,param_grid=forest_params,cv=10,scoring="accuracy")
```

```
In [68]: rfc_cv.fit(x_train,y_train)
```

```
C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\model_selection\_validation.py:615: FitFailedWarning:
Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\model_selection\_validation.py", line 598, in
_fit_and_score
    estimator.fit(X_train, y_train, **fit_params)
  File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\ensemble\_forest.py", line 387, in fit
    trees = Parallel(n_jobs=self.n_jobs, verbose=self.verbose,
  File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\joblib\parallel.py", line 1043, in __call__
    if self.dispatch_one_batch(iterator):
  File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\joblib\parallel.py", line 861, in dispatch_one_batch
    self._dispatch(tasks)
  File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\joblib\parallel.py", line 779, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
  File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\joblib\_parallel_backends.py", line 208, in apply_asyn
nc
    result = ImmediateResult(func)
  File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\joblib\_parallel_backends.py", line 572, in __init__
    self.results = batch()
  File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\joblib\parallel.py", line 262, in __call__
    return [func(*args, **kwargs)
  File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\joblib\parallel.py", line 262, in <listcomp>
```

```
        return [func(*args, **kwargs)]
File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\utils\fixes.py", line 222, in __call__
    return self.function(*args, **kwargs)
File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\ensemble\_forest.py", line 169, in _parallel_
build_trees
    tree.fit(X, y, sample_weight=curr_sample_weight, check_input=False)
File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\tree\_classes.py", line 903, in fit
    super().fit(
File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\tree\_classes.py", line 289, in fit
    raise ValueError("max_features must be in (0, n_features]")
ValueError: max_features must be in (0, n_features]
```

```
warnings.warn("Estimator fit failed. The score on this train-test"
C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\model_selection\_validation.py:615: FitFailedWarning:
Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
```

```
File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\model_selection\_validation.py", line 598, in
_fit_and_score
    estimator.fit(X_train, y_train, **fit_params)
File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\ensemble\_forest.py", line 387, in fit
    trees = Parallel(n_jobs=self.n_jobs, verbose=self.verbose,
File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\joblib\parallel.py", line 1043, in __call__
    if self.dispatch_one_batch(iterator):
File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\joblib\parallel.py", line 861, in dispatch_one_batch
    self._dispatch(tasks)
File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\joblib\parallel.py", line 779, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\joblib\_parallel_backends.py", line 208, in apply_asy
nc
```

```
    result = ImmediateResult(func)
File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\joblib\_parallel_backends.py", line 572, in __init__
    self.results = batch()
File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\joblib\parallel.py", line 262, in __call__
    return [func(*args, **kwargs)]
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File "C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\model_selection\_validation.py", line 598, in
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```



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```

```

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warnings.warn("Estimator fit failed. The score on this train-test"
C:\Users\Dhairya Parikh\anaconda3\lib\site-packages\sklearn\model_selection\_search.py:922: UserWarning: One or m
ore of the test scores are non-finite: [      nan 0.82314211 0.82229465 0.82397508      nan      nan
      nan      nan      nan      nan      nan      nan
      nan      nan      nan 0.81379111 0.81973055 0.81632623
      nan      nan      nan      nan      nan      nan
      nan      nan      nan      nan      nan 0.8120817
0.81802839 0.81208895      nan      nan      nan      nan
      nan      nan      nan      nan      nan      nan
      nan 0.80190497 0.80613501 0.8044401      nan      nan
      nan      nan      nan      nan      nan      nan
      nan      nan      nan 0.79341591 0.80614226 0.8087136
      nan      nan      nan      nan      nan      nan
      nan      nan      nan      nan]
warnings.warn(

```

```

Out[68]: GridSearchCV(cv=10, estimator=RandomForestClassifier(),
      param_grid=[{'max_depth': [10, 11, 12, 13, 14],
                    'max_features': [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,
                                     12, 13]}],
      scoring='accuracy')

```

```

In [69]: pred=rfc_cv.predict(x_test)

```

```

In [70]: print(classification_report(y_test,pred))

```

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| No | 0.83 | 0.98 | 0.90 | 245 |
| Yes | 0.20 | 0.02 | 0.04 | 49 |
| accuracy | | | 0.82 | 294 |
| macro avg | 0.52 | 0.50 | 0.47 | 294 |
| weighted avg | 0.73 | 0.82 | 0.76 | 294 |

```

In [71]: rfc_cv.best_params_

```

```

Out[71]: {'max_depth': 10, 'max_features': 3}

```