import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

df = pd.read_csv("/content/diabetes.csv")

df.head()

→	Pre	gnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI	DiabetesPedigree
	0	6	148	72	35	0	33.6	
	1	1	85	66	29	0	26.6	
	2	8	183	64	0	0	23.3	
;	3	1	89	66	23	94	28.1	
	4	0	137	40	35	168	43.1	>
Next s	steps:	Generate	e code with	df Vie	w recommended p	olots	New in	teractive sheet

df.tail()

→		Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI	DiabetesPedig
	763	10	101	76	48	180	32.9	
	764	2	122	70	27	0	36.8	
	765	5	121	72	23	112	26.2	
	766	1	126	60	0	0	30.1	
	767	1	93	70	31	0	30.4	>

df.isnull()



	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI	DiabetesPedi
0	False	False	False	False	False	False	
1	False	False	False	False	False	False	
2	False	False	False	False	False	False	
3	False	False	False	False	False	False	
4	False	False	False	False	False	False	
763	False	False	False	False	False	False	
764	False	False	False	False	False	False	
765	False	False	False	False	False	False	
766	False	False	False	False	False	False	
767	False	False	False	False	False	False	
768 rc	ows × 9 columns						>

df.isnull().sum()



	0
Pregnancies	0
Glucose	0
BloodPressure	0
SkinThickness	0
Insulin	0
ВМІ	0
DiabetesPedigreeFunction	0
Age	0
Outcome	0

dtype: int64

df.duplicated()

₹

0

- 0 False
- 1 False
- 2 False
- 3 False
- 4 False
- ...
- 763 False
- 764 False
- **765** False
- 766 False
- **767** False

768 rows × 1 columns

dtype: bool

x=df[["Pregnancies","BloodPressure","Insulin","Age"]]
x

→		Pregnancies	BloodPressure	Insulin	Age	
	0	6	72	0	50	ılı
	1	1	66	0	31	+//
	2	8	64	0	32	
	3	1	66	94	21	
	4	0	40	168	33	
	763	10	76	180	63	
	764	2	70	0	27	
	765	5	72	112	30	
	766	1	60	0	47	
	767	1	70	0	23	

768 rows × 4 columns

Next steps: Generate code with x

View recommended plots

New interactive sheet

y=df["DiabetesPedigreeFunction"]
v

→	DiabetesPedigreeFunctio				
	0	0.627			
	1	0.351			
	2	0.672			
	3	0.167			
	4	2.288			
	763	0.171			
	764	0.340			
	765	0.245			
	766	0.349			
	767	0.315			

768 rows × 1 columns

dtype: float64

from sklearn.model_selection import train_test_split

x_train,x_test,y_train,y_test = train_test_split(x,y,test_size=0.2,random_state=0)

from sklearn import tree

data= tree.DecisionTreeClassifier(criterion="entropy")

from sklearn.tree import DecisionTreeRegressor # Import the appropriate model for regress

data = DecisionTreeRegressor(criterion="squared_error") # Use a regressor instead of a cl
data = data.fit(x_train,y_train)

tree.plot_tree(data)

```
\rightarrow [Text(0.6490799229887984, 0.975, 'x[2] <= 149.0\nsquared_error = 0.111\nsamples =
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```

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```

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  Text(0.10020366598778004, 0.375, 'squared_error = 0.0\nsamples = 1\nvalue =
0.249'),
  Text(0.11568228105906314, 0.575, 'x[2] <= 76.5 \nsquared\_error = 0.019 \nsamples =
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5\nvalue = 0.53'),
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2\nvalue = 0.553'),
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0.545'),
  Text(0.10509164969450102, 0.325, 'squared_error = 0.0\nsamples = 1\nvalue =
0.561'),
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3\nvalue = 0.515'),
  Text(0.10835030549898167, 0.325, 'x[1] <= 62.0 \nsquared_error = 0.0 \nsamples =
2\nvalue = 0.51'),
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0.509'),
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0.649'),
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0.761'),
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3\nvalue = 0.33'),
  Text(0.11812627291242363, 0.475, 'squared error = 0.0 \nsamples = 1 \nvalue 
0.401'),
  Text(0.12138492871690428, 0.475, 'x[3] <= 21.5 \nsquared_error = 0.0 \nsamples =
2\nvalue = 0.294'),
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0.289'),
  Text(0.1230142566191446, 0.425, 'squared error = -0.0 \nsamples = 1 \nvalue =
0.299'),
  Text(0.09368635437881874, 0.675, 'squared error = -0.0 \nsamples = 1 \nvalue =
                                   0240260020 0 725 12541 4 74 0) -------
```

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| ופאר(מייסססבטבטבסבסבטבט, מייעב), א[ד] אבן אוואן באשיש = וופארו(מייט) וואן אייען אוואן אייען אוואן אוואר בו
28\nvalue = 0.382'),
   Text(0.15417515274949084, 0.675, 'x[3] \le 22.5 \nsquared\_error = 0.051 \nsamples =
22\nvalue = 0.411'),
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13\nvalue = 0.334'),
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7\nvalue = 0.409'),
   Text(0.13116089613034623, 0.525, 'x[0] <= 0.5\nsquared_error = 0.022\nsamples =
6\nvalue = 0.357'),
    Text(0.12790224032586558, 0.475, 'x[1] <= 62.0\nsquared error = 0.005\nsamples =
3\nvalue = 0.45'),
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0.452'),
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0.366'),
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0.155'),
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0.167'),
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4\nvalue = 0.183'),
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2\nvalue = 0.209'),
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0.219'),
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0.198'),
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2\nvalue = 0.157'),
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0.173'),
    Text(0.14908350305498982, 0.425, 'squared_error = 0.0\nsamples = 1\nvalue =
0.142'),
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2\nvalue = 0.374'),
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0.143'),
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9\nvalue = 0.523'),
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8\nvalue = 0.478'),
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5\nvalue = 0.372'),
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3\nvalue = 0.303'),
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```

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2\nvalue = 0.248'),
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0.261'),
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0.431'),
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0.886'),
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5\nvalue = 0.198'),
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3\nvalue = 0.229'),
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    Text(0.18818737270875763, 0.525, 'squared_error = 0.0\nsamples = 1\nvalue =
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107 \text{ nvalue} = 0.546'),
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98\nvalue = 0.566'),
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97\nvalue = 0.557'),
    Text(0.24739052953156823, 0.675, 'x[1] <= 69.0 \nsquared_error = 0.126 \nsamples =
69\nvalue = 0.522'),
    Text(0.22380346232179227, 0.625, 'x[1] <= 64.5\nsquared_error = 0.119\nsamples =
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    Text(0.21257637474541752, 0.575, 'x[3] <= 66.0\nsquared error = 0.064\nsamples =
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    Text(0.20315682281059064, 0.525, 'x[2] <= 57.0 \nsquared_error = 0.062 \nsamples =
26 \cdot value = 0.467'),
    Text(0.18920570264765785, 0.475, 'x[3] <= 29.5 \nsquared_error = 0.039 \nsamples =
19\nvalue = 0.414'),
```

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Text(0.17515274949083504, 0.425, 'x[1] <= 25.0 \nsquared_error = 0.014 \nsamples =
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  Text(0.16822810590631365, 0.375, 'x[3] <= 27.0\nsquared_error = 0.002\nsamples =
5\nvalue = 0.263'),
  Text(0.164969450101833, 0.325, 'x[3] <= 25.5\nsquared error = 0.001\nsamples =
3\nvalue = 0.289'),
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0.299'),
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  Text(0.1714867617107943, 0.325, 'x[3] \le 28.5 \nsquared\_error = 0.0 \nsamples =
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  Text(0.17311608961303462, 0.275, 'squared_error = 0.0 \nsamples = 1 \nvalue =
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  Text(0.17637474541751527, 0.275, 'squared_error = 0.0\nsamples = 1\nvalue =
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  Text(0.17963340122199592, 0.275, 'squared_error = 0.0\nsamples = 1\nvalue =
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  Text(0.18615071283095724, 0.325, 'x[1] <= 59.0\nsquared_error = 0.003\nsamples =
4\nvalue = 0.497'),
  Text(0.18289205702647657, 0.275, 'x[1] \le 53.0 \nsquared\_error = 0.0 \nsamples =
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  Text(0.18126272912423624, 0.225, 'squared error = 0.0\nsamples = 1\nvalue =
0.526'),
  Text(0.1845213849287169, 0.225, 'squared_error = 0.0 \times 10^{-1} = 1 \times 10^{-1} Text(0.1845213849287169, 0.225, 'squared_error = 0.0 \times 10^{-1} = 1 \times 10^{-1} Text(0.1845213849287169, 0.225, 'squared_error = 0.0 \times 10^{-1} Text(0.1845213849287169, 0.225, 'squared_error = 0.0 \times 10^{-1} Text(0.1845213849287169, 0.225, 'squared_error = 0.0 \times 10^{-1} Text(0.1845213849287169), 'squared_error = 0.0 \times 10^{-1} Text(0.1845213849289), 'squared_error = 0.0 \times 10^{-1}
  Text(0.1894093686354379, 0.275, 'x[3] <= 25.5 \nsquared\_error = 0.001 \nsamples =
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  Text(0.20325865580448066, 0.425, 'x[0] <= 0.5 \nsquared error = 0.063\nsamples =
8\nvalue = 0.495'),
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  Text(0.1975560081466395, 0.325, 'x[3] <= 37.5 \nsquared_error = 0.016 \nsamples =
3\nvalue = 0.8'),
  Text(0.1959266802443992, 0.275, 'x[3] <= 30.5\nsquared error = 0.011\nsamples =
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0.932'),
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0.254'),
  Text(0.20733197556008146, 0.375, 'x[1] \le 30.0 \text{ nsquared error} = 0.001 \text{ nsamples} =
4\nvalue = 0.326'),
  Text(0.2040733197556008, 0.325, 'x[0] \le 1.5 \nsquared error = 0.0\nsamples =
2\nvalue = 0.293'),
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0.304'),
  Text(0.21059063136456213, 0.325, 'x[1] <= 62.0\nsquared error = 0.0\nsamples =
2\nvalue = 0.36'),
  Tay+/0 200061202/6222170 0 275 'squaned onnon - 0 0\nsamples - 1\nyalue -
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20070170770272170, 0.277, 3quarca_crio
                                                                                                                                                      - 0.0 (113ampica - i (11vaiac -
0.349'),
  Text(0.21221995926680245, 0.275, 'squared error = -0.0 \nsamples = 1 \nvalue =
0.37'),
  Text(0.21710794297352343, 0.475, 'x[2] <= 66.5 \nsquared\_error = 0.094 \nsamples =
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6\nvalue = 0.503'),
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2\nvalue = 0.678'),
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0.757'),
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4\nvalue = 0.415'),
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0.225'),
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3\nvalue = 0.478'),
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  Text(0.22525458248472505, 0.275, 'x[3] \le 27.5 \nsquared\_error = 0.0 \nsamples =
2\nvalue = 0.468'),
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2\nvalue = 0.784'),
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0.735'),
   Text(0.23503054989816702, 0.575, x[0] <= 0.5 \text{ nsquared error} = 0.202 \text{ nsamples} =
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1.893'),
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5\nvalue = 0.409'),
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2\nvalue = 0.657'),
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0.666'),
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0.647'),
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2\nvalue = 0.32'),
   Text(0.23340122199592667, 0.325, 'squared_error = 0.0\nsamples = 1\nvalue =
0.324'),
   Text(0.23665987780040734, 0.325, 'squared error = 0.0 \nsamples = 1 \nvalue 
0.315'),
   Text(0.24317718940936864, 0.475, 'x[3] <= 27.5 \nsquared_error = 0.044 \nsamples =
6\nvalue = 0.83'),
   Text(0.239918533604888, 0.425, 'x[1] <= 66.5\nsquared error = 0.032\nsamples =
3\nvalue = 0.686'),
   Text(0.23828920570264767, 0.375, 'squared_error = 0.0\nsamples = 1\nvalue = 0.93'),
```

```
Text(0.24154786150712831, 0.375, 'x[0] <= 1.5\nsquared_error = 0.004\nsamples =
2\nvalue = 0.564'),
 Text(0.239918533604888, 0.325, 'squared error = 0.0 \nsamples = 1 \nvalue = 0.624'),
 Text(0.24317718940936864, 0.325, 'squared error = 0.0 \nsamples = 1 \nvalue =
0.503'),
 Text(0.24643584521384929, 0.425, 'x[2] <= 32.5\nsquared error = 0.014\nsamples =
3\nvalue = 0.974'),
 Text(0.24480651731160896, 0.375, 'squared error = 0.0 \nsamples = 1 \nvalue =
1.138'),
 Text(0.2480651731160896, 0.375, 'x[3] <= 28.5 \nsquared_error = 0.001 \nsamples =
2\nvalue = 0.892'),
 Text(0.24643584521384929, 0.325, 'squared_error = 0.0\nsamples = 1\nvalue =
0.867'),
 Text(0.24969450101832993, 0.325, 'squared error = 0.0 \nsamples = 1 \nvalue =
0.917'),
 Text(0.2709775967413442, 0.625, 'x[0] <= 0.5\nsquared_error = 0.129\nsamples =
29\nvalue = 0.462'),
 Text(0.25621181262729126, 0.575, 'x[3] <= 25.5 \nsquared\_error = 0.029 \nsamples =
8\nvalue = 0.331'),
 Text(0.2545824847250509, 0.525, 'squared error = 0.0 \times 10^{-2}),
 Text(0.25784114052953155, 0.525, 'x[3] <= 32.0 \nsquared_error = 0.004 \nsamples =
7\nvalue = 0.27'),
 Text(0.2545824847250509, 0.475, 'x[3] <= 27.0 \nsquared_error = 0.004 \nsamples =
4\nvalue = 0.295'),
 Text(0.2529531568228106, 0.425, 'x[1] <= 75.0 \nsquared error = 0.005 \nsamples =
3\nvalue = 0.282'),
 Text(0.25132382892057026, 0.375, 'squared_error = 0.0\nsamples = 1\nvalue =
0.285'),
 Text(0.2545824847250509, 0.375, 'squared error = 0.007\nsamples = 2\nvalue =
0.281'),
 Text(0.25621181262729126, 0.425, 'squared_error = 0.0\nsamples = 1\nvalue =
0.334'),
 Text(0.2610997963340122, 0.475, 'x[1] <= 74.0 \nsquared_error = 0.001 \nsamples =
3\nvalue = 0.235'),
 Text(0.2594704684317719, 0.425, 'x[3] <= 44.0\nsquared error = 0.0\nsamples =
2\nvalue = 0.256'),
 Text(0.25784114052953155, 0.375, 'squared error = 0.0 \nsamples = 1 \nvalue 
0.254'),
 Text(0.2610997963340122, 0.375, 'squared error = 0.0 \times 10^{-2} = 1 \times 10^{-2}
 Text(0.26272912423625255, 0.425, 'squared error = 0.0\nsamples = 1\nvalue =
0.194'),
 Text(0.28574338085539713, 0.575, 'x[3] <= 27.5\nsquared error = 0.157\nsamples =
21\nvalue = 0.512'),
 Text(0.2716904276985743, 0.525, 'x[0] <= 1.5 \nsquared_error = 0.029 \nsamples =
8\nvalue = 0.355'),
 Text(0.2676171079429735, 0.475, 'x[3] <= 25.5\nsquared error = 0.0\nsamples =
2\nvalue = 0.209'),
 Text(0.2659877800407332, 0.425, 'squared error = 0.0 \times 10^{-2} = 1 \times 10^{-2}
 Text(0.26924643584521385, 0.425, 'squared_error = -0.0\nsamples = 1\nvalue =
0.197'),
 Text(0.27576374745417515, 0.475, 'x[2] <= 50.5\nsquared error = 0.029\nsamples =
6\nvalue = 0.403'),
 Text(0.2725050916496945, 0.425, 'x[2] \le 22.0 \nsquared\_error = 0.003 \nsamples =
2\nvalue = 0.288'),
 Text(0.2708757637474542, 0.375, 'squared_error = 0.0 \nsamples = 1 \nvalue = 0.34'),
 Text(0.27413441955193485, 0.375, 'squared error = 0.0\nsamples = 1\nvalue =
0.235'),
 Text(0.2790224032586558, 0.425, 'x[2] <= 61.5 \nsquared_error = 0.032 \nsamples =
4\nvalue = 0.461'),
 Text(0.2773930753564155, 0.375, 'squared_error = 0.0 \times 10^{-2}),
```

```
Text(0.28065173116089615, 0.375, x[2] <= 71.0 \ln equared_error = <math>0.023 \ln equared
3\nvalue = 0.389'),
  Text(0.2790224032586558, 0.325, 'squared_error = 0.0\nsamples = 1\nvalue = 0.187'),
   Text(0.28228105906313644, 0.325, 'x[2] \le 86.0 \le error = 0.003 \le error = 0.00
2\nvalue = 0.49'),
   Text(0.28065173116089615, 0.275, 'squared_error = 0.0\nsamples = 1\nvalue =
0.547'),
  Text(0.2839103869653768, 0.275, 'squared_error = 0.0\nsamples = 1\nvalue = 0.433'),
   Text(0.29979633401221994, 0.525, 'x[3] <= 37.0 \nsquared\_error = 0.211 \nsamples =
13\nvalue = 0.609'),
   Text(0.29124236252545826, 0.475, 'x[2] <= 23.0\nsquared error = 0.253\nsamples =
9\nvalue = 0.712'),
   Text(0.2855397148676171, 0.425, 'x[3] <= 28.5 \nsquared_error = 0.409 \nsamples =
3\nvalue = 1.029'),
   Text(0.2839103869653768, 0.375, 'squared_error = 0.0\nsamples = 1\nvalue = 1.698'),
   Text(0.28716904276985744, 0.375, 'x[0] <= 1.5\nsquared_error = 0.278\nsamples =
2\nvalue = 0.694'),
   Text(0.2855397148676171, 0.325, 'squared_error = 0.0 \nsamples = 1 \nvalue = 1.222'),
   Text(0.28879837067209774, 0.325, 'squared_error = 0.0\nsamples = 1\nvalue =
0.167'),
   Text(0.2969450101832994, 0.425, 'x[3] <= 30.5\nsquared error = 0.1\nsamples =
6\nvalue = 0.553'),
   Text(0.29368635437881874, 0.375, 'x[1] <= 73.0 \nsquared_error = 0.051 \nsamples =
3\nvalue = 0.341'),
  Text(0.2920570264765784, 0.325, 'squared_error = 0.0\nsamples = 1\nvalue = 0.658'),
   Text(0.2953156822810591, 0.325, 'x[1] <= 75.0\nsquared error = 0.001\nsamples =
2\nvalue = 0.182'),
   Text(0.29368635437881874, 0.275, 'squared_error = 0.0 \nsamples = 1 \nvalue =
   Text(0.2969450101832994, 0.275, 'squared_error = -0.0 \nsamples = 1 \nvalue =
0.215'),
   Text(0.30020366598778003, 0.375, 'x[2] <= 65.0\nsquared error = 0.058\nsamples =
3\nvalue = 0.766'),
  Text(0.29857433808553974, 0.325, 'squared_error = 0.0\nsamples = 1\nvalue =
1.096'),
   Text(0.3018329938900204, 0.325, 'x[1] <= 72.0 \nsquared_error = 0.005 \nsamples =
2\nvalue = 0.601'),
   Text(0.30020366598778003, 0.275, 'squared error = 0.0 \nsamples = 1 \nvalue =
0.529'),
   Text(0.3034623217922607, 0.275, 'squared_error = 0.0\nsamples = 1\nvalue = 0.673'),
   Text(0.3083503054989817, 0.475, 'x[0] <= 1.5 \nsquared_error = 0.041 \nsamples =
4\nvalue = 0.379'),
   Text(0.30509164969450103, 0.425, 'x[3] <= 40.0\nsquared error = 0.011\nsamples =
2\nvalue = 0.19'),
  \label{text} Text(0.3034623217922607, \ 0.375, \ 'squared\_error = 0.0 \ nsamples = 1 \ nvalue = 0.088'), \\ Text(0.30672097759674133, \ 0.375, \ 'squared\_error = -0.0 \ nsamples = 1 \ nvalue = 0.088'), \\ Text(0.30672097759674133, \ 0.375, \ 'squared\_error = -0.0 \ nsamples = 1 \ nvalue = 0.088'), \\ Text(0.30672097759674133, \ 0.375, \ 'squared\_error = -0.0 \ nsamples = 1 \ nvalue = 0.088'), \\ Text(0.30672097759674133, \ 0.375, \ 'squared\_error = -0.0 \ nsamples = 1 \ nvalue = 0.088'), \\ Text(0.30672097759674133, \ 0.375, \ 'squared\_error = -0.0 \ nsamples = 1 \ nvalue = 0.088'), \\ Text(0.30672097759674133, \ 0.375, \ 'squared\_error = -0.0 \ nsamples = 1 \ nvalue = 0.088'), \\ Text(0.30672097759674133, \ 0.375, \ 'squared\_error = -0.0 \ nsamples = 1 \ nvalue = 0.088'), \\ Text(0.30672097759674133, \ 0.375, \ 'squared\_error = -0.0 \ nsamples = 1 \ nvalue = 0.088'), \\ Text(0.30672097759674133, \ 0.375, \ 'squared\_error = -0.0 \ nsamples = 1 \ nvalue = 0.088'), \\ Text(0.30672097759674133, \ 0.375, \ 'squared\_error = -0.0 \ nsamples = 1 \ nvalue = 0.088'), \\ Text(0.30672097759674133, \ 0.375, \ 'squared\_error = -0.0 \ nsamples = 1 \ nvalue = 0.088'), \\ Text(0.30672097759674133, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, \ 0.375, 
0.293'),
   Text(0.31160896130346233, 0.425, 'x[1] <= 72.5 \nsquared\_error = 0.0 \nsamples =
2\nvalue = 0.568'),
  Text(0.309979633401222, 0.375, 'squared_error = 0.0 \times 10^{-2} = 1 \times 10^{-2} = 1 \times 10^{-2} Text(0.309979633401222, 0.375, 'squared_error = 0.0 \times 10^{-2} = 1 
  Text(0.3132382892057026, 0.375, 'squared error = 0.0\nsamples = 1\nvalue = 0.56'),
   Text(0.34093686354378816, 0.675, x[3] \le 25.5 \nsquared error = 0.249\nsamples =
28\nvalue = 0.643'),
   Text(0.33930753564154786, 0.625, 'squared_error = 0.0\nsamples = 1\nvalue = 2.42'),
   Text(0.3425661914460285, 0.625, 'x[3] \le 30.0 \nsquared\_error = 0.137 \nsamples =
27\nvalue = 0.577'),
   Text(0.32871690427698574, 0.575, 'x[1] <= 85.0\nsquared error = 0.031\nsamples =
10 \setminus value = 0.386'),
   Text(0.3230142566191446, 0.525, 'x[2] <= 37.0 \nsquared_error = 0.031 \nsamples =
7\nvalue = 0.443'),
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4\nvalue = 0.537'),
   Text(0.3181262729124236, 0.425, 'x[3] \le 28.0 \nsquared\_error = 0.003 \nsamples = 0
2\nvalue = 0.652'),
     Text(0.3164969450101833, 0.375, 'squared error = 0.0 \times 10^{-1}),
    Text(0.319755600814664, 0.375, 'squared_error = 0.0 \times 10^{-1}, 'squ
     Text(0.3213849287169043, 0.425, 'squared_error = 0.034\nsamples = 2\nvalue =
0.422'),
    Text(0.32627291242362527, 0.475, 'x[2] <= 75.0 \nsquared_error = 0.002 \nsamples =
3\nvalue = 0.319'),
   \label{text} Text(0.3246435845213849, \ 0.425, \ 'squared\_error = 0.0 \ nsamples = 1 \ nvalue = 0.261'), \\ Text(0.32790224032586557, \ 0.425, \ 'x[2] <= 84.0 \ nsquared\_error = 0.0 \ nsamples = 1 \ nvalue = 0.261'), \\ Text(0.32790224032586557, \ 0.425, \ 'x[2] <= 84.0 \ nsquared\_error = 0.0 \ nsamples = 1 \ nvalue = 0.261'), \\ Text(0.32790224032586557, \ 0.425, \ 'x[2] <= 84.0 \ nsquared\_error = 0.0 \ nsamples = 1 \ nvalue = 0.261'), \\ Text(0.32790224032586557, \ 0.425, \ 'x[2] <= 84.0 \ nsquared\_error = 0.0 \ nsamples = 1 \ nvalue = 0.261'), \\ Text(0.32790224032586557, \ 0.425, \ 'x[2] <= 84.0 \ nsquared\_error = 0.0 \ nsamples = 1 \ nvalue = 0.261'), \\ Text(0.32790224032586557, \ 0.425, \ 'x[2] <= 84.0 \ nsquared\_error = 0.0 \ nsamples = 1 \ nvalue = 0.261'), \\ Text(0.32790224032586557, \ 0.425, \ 'x[2] <= 84.0 \ nsquared\_error = 0.0 \ nsamples = 1 \ nvalue = 0.261'), \\ Text(0.32790224032586557, \ 0.425, \ 'x[2] <= 84.0 \ nsquared\_error = 0.0 \ nsamples = 1 \ nvalue = 0.261'), \\ Text(0.32790224032586557, \ 0.425, \ 'x[2] <= 84.0 \ nsquared\_error = 0.0 \ nsamples = 1 \ nvalue = 0.261'), \\ Text(0.32790224032586557, \ 0.425, \ 'x[2] <= 84.0 \ nsquared\_error = 0.0 \ nsamples = 1 \ nvalue = 0.261'), \\ Text(0.32790224032586557, \ 0.425, \ 'x[2] <= 84.0 \ nsquared\_error = 0.0 \ nsamples = 1 \ nsquared\_error
2\nvalue = 0.348'),
     Text(0.32627291242362527, 0.375, 'squared_error = 0.0\nsamples = 1\nvalue =
0.365'),
    Text(0.3295315682281059, 0.375, 'squared error = -0.0 \ nsamples = 1 \ nvalue = 0.33'),
    Text(0.33441955193482686, 0.525, 'x[3] <= 28.0 \nsquared\_error = 0.005 \nsamples =
3\nvalue = 0.254'),
     Text(0.33279022403258657, 0.475, 'x[1] \le 108.0 \text{ nsquared error} = 0.006 \text{ nsamples} =
2\nvalue = 0.282'),
    Text(0.3311608961303462, 0.425, 'squared_error = 0.0\nsamples = 1\nvalue = 0.358'),
    Text(0.33441955193482686, 0.425, 'squared_error = 0.0\nsamples = 1\nvalue =
0.207'),
     Text(0.3360488798370672, 0.475, 'squared_error = -0.0 \times 10^{-2} = 1\nvalue =
0.197'),
     Text(0.3564154786150713, 0.575, 'x[1] <= 89.0 \nsquared_error = 0.165 \nsamples =
17 \cdot nvalue = 0.689'),
     Text(0.34663951120162934, 0.525, 'x[3] <= 48.0\nsquared_error = 0.187\nsamples =
9\nvalue = 0.837'),
    Text(0.33930753564154786, 0.475, 'x[1] <= 85.0 \nsquared\_error = 0.134 \nsamples =
5\nvalue = 1.08'),
    Text(0.3376782077393075, 0.425, 'squared_error = 0.0 \times 10^{-2} = 1 \times 10^{-2} Text(0.3376782077393075, 0.425, 'squared_error = 0.0 \times 10^{-2} = 1 \times 10^{-2} Text(0.3376782077393075, 0.425, 'squared_error = 0.0 \times 10^{-2} Text(0.3376782077393075), 'squared_error = 0.0 \times 10^{-2}
     Text(0.34093686354378816, 0.425, 'x[2] <= 55.0 \nsquared\_error = 0.014 \nsamples =
4\nvalue = 0.904'),
    Text(0.3376782077393075, 0.375, 'x[3] <= 35.0\nsquared error = 0.003\nsamples =
2\nvalue = 0.799'),
    Text(0.3360488798370672, 0.325, 'squared_error = 0.0 \times 10^{-2} = 1 \times 10^{-2} = 0.743^{-1}),
     Text(0.33930753564154786, 0.325, 'squared_error = 0.0\nsamples = 1\nvalue =
0.855'),
     Text(0.34419551934826886, 0.375, 'x[0] <= 0.5 \nsquared\_error = 0.002 \nsamples =
2\nvalue = 1.01'),
   Text(0.3425661914460285, 0.325, 'squared_error = 0.0 \nsamples = 1 \nvalue = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 1 \nvalue = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 1 \nvalue = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 1 \nvalue = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 1 \nvalue = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 1 \nvalue = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 1 \nvalue = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 1 \nvalue = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 1 \nvalue = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 1 \nvalue = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 1 \nvalue = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 1 \nvalue = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 1 \nvalue = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 0.962'), \\ Text(0.34582484725050916, 0.325, 'squared_error = -0.0 \nsamples = 0.962'), \\ Text(0.34582484725050916, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 0.325, 
1.057'),
     Text(0.3539714867617108, 0.475, 'x[1] <= 86.0\nsquared error = 0.087\nsamples =
4\nvalue = 0.534'),
     Text(0.35234215885947046, 0.425, 'x[3] <= 60.5\nsquared error = 0.055\nsamples =
3\nvalue = 0.41'),
    Text(0.35071283095723016, 0.375, x[0] \le 1.0 \text{ nsquared error} = 0.0 \text{ nsamples} =
2\nvalue = 0.245'),
    Text(0.3490835030549898, 0.325, 'squared_error = 0.0 \times 10^{-2} = 1 \times 10^{-2} = 1 \times 10^{-2} Text(0.3490835030549898, 0.325, 'squared_error = 0.0 \times 10^{-2} = 1 \times 10^{-2} = 
     Text(0.35234215885947046, 0.325, 'squared_error = 0.0\nsamples = 1\nvalue =
0.259'),
    Text(0.3539714867617108, 0.375, 'squared_error = 0.0 \nsamples = 1 \nvalue = 0.741'),
     Text(0.3556008146639511, 0.425, 'squared error = -0.0 \nsamples = 1 \nvalue =
0.905'),
     Text(0.3661914460285132, 0.525, 'x[3] <= 50.0\nsquared error = 0.089\nsamples =
8\nvalue = 0.522'),
     Text(0.3621181262729124, 0.475, 'x[1] <= 97.0 \nsquared_error = 0.077 \nsamples =
6\nvalue = 0.421'),
     Text(0.35885947046843175, 0.425, 'x[3] <= 45.5\nsquared error = 0.002\nsamples =
```

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4\nvalue = 0.267'),
  Text(0.35723014256619146, 0.375, 'x[3] <= 43.5 \nsquared_error = 0.0 \nsamples =
3\nvalue = 0.29'),
  Text(0.3556008146639511, 0.325, 'x[3] <= 38.5\nsquared error = 0.0\nsamples =
2\nvalue = 0.303'),
  Text(0.3539714867617108, 0.275, 'squared_error = 0.0\nsamples = 1\nvalue = 0.314'),
  Text(0.35723014256619146, 0.275, 'squared_error = 0.0\nsamples = 1\nvalue =
  Text(0.35885947046843175, 0.325, 'squared error = 0.0 \nsamples = 1 \nvalue =
0.265'),
  Text(0.3604887983706721, 0.375, 'squared_error = 0.0 \times 10^{-1}),
  Text(0.3653767820773931, 0.425, 'x[3] <= 38.0 \nsquared_error = 0.086 \nsamples =
2\nvalue = 0.728'),
  Text(0.36374745417515275, 0.375, 'squared error = 0.0 \times 10^{-1} = 1\nvalue =
1.021'),
  Text(0.3670061099796334, 0.375, 'squared_error = -0.0\nsamples = 1\nvalue =
0.435'),
  Text(0.37026476578411405, 0.475, 'x[1] <= 91.0 \nsquared_error = 0.0 \nsamples =
2\nvalue = 0.825'),
  Text(0.36863543788187375, 0.425, 'squared error = 0.0 \nsamples = 1 \nvalue =
0.805'),
  \label{text} Text(0.3718940936863544, 0.425, 'squared_error = 0.0 \nsamples = 1 \nvalue = 0.845'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1 \nvalue = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1 \nvalue = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1 \nvalue = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1 \nvalue = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1 \nvalue = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1 \nvalue = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1 \nvalue = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1 \nvalue = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1 \nvalue = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1 \nvalue = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1 \nvalue = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1 \nvalue = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1 \nvalue = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1 \nsamples = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1.4'), \\ Text(0.29742235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1.4'), \\ Text(0.2974235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1.4'), \\ Text(0.2974235234215886, 0.725, 'squared_error = -0.0 \nsamples = 1.4'), \\ Text(0.2974235234215886, 0.
  Text(0.3727087576374745, 0.775, 'x[1] <= 59.0 \nsquared_error = 0.012 \nsamples =
9\nvalue = 0.328'),
  Text(0.36945010183299387, 0.725, 'x[1] <= 48.0\nsquared error = 0.0\nsamples =
2\nvalue = 0.414'),
  Text(0.3678207739307536, 0.675, 'squared_error = 0.0 \times 10^{-1}),
  Text(0.3710794297352342, 0.675, 'squared_error = -0.0\nsamples = 1\nvalue =
0.422'),
  Text(0.37596741344195517, 0.725, 'x[0] <= 1.5\nsquared_error = 0.012\nsamples =
7\nvalue = 0.303'),
  Text(0.37433808553971487, 0.675, 'x[1] <= 91.0 \nsquared_error = 0.005 \nsamples =
6\nvalue = 0.339'),
  Text(0.36945010183299387, 0.625, 'x[1] <= 71.0 \nsquared_error = 0.002 \nsamples =
3\nvalue = 0.4'),
  Text(0.3678207739307536, 0.575, 'squared_error = 0.0 \times 10^{-1} = 1 \times 10^{-1} = 0.349'),
  Text(0.3710794297352342, 0.575, 'x[3] <= 36.5 \nsquared_error = 0.0 \nsamples =
2\nvalue = 0.425'),
  Text(0.36945010183299387, 0.525, 'squared_error = 0.0\nsamples = 1\nvalue =
0.447'),
  Text(0.3727087576374745, 0.525, 'squared error = -0.0 \nsamples = 1 \nvalue =
0.403'),
  Text(0.37922606924643587, 0.625, x[0] <= 0.5 \ln quared error = 0.001 \ln samples =
3\nvalue = 0.279'),
  Text(0.3775967413441955, 0.575, 'x[2] <= 137.5\nsquared error = 0.0\nsamples =
2\nvalue = 0.302'),
  Text(0.37596741344195517, 0.525, 'squared_error = 0.0\nsamples = 1\nvalue =
0.319'),
  Text(0.37922606924643587, 0.525, 'squared_error = 0.0\nsamples = 1\nvalue =
0.284'),
  Text(0.38085539714867617, 0.575, 'squared error = 0.0 \setminus 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.00 = 1.0
0.234'),
  Text(0.3775967413441955, 0.675, 'squared_error = -0.0\nsamples = 1\nvalue =
  Text(0.6122024567209776, 0.875, 'x[0] <= 6.5\nsquared error = 0.073\nsamples =
270 \text{ nvalue} = 0.402'),
  Text(0.5171620417515275, 0.825, 'x[2] <= 66.5 \nsquared error = <math>0.058 \nsquared
161 \text{ nvalue} = 0.372'),
  Text(0.454385183299389, 0.775, 'x[0] <= 3.5\nsquared_error = 0.047\nsamples =
```

```
122 \text{ (nvalue = 0.348)},
 Text(0.40338594704684316, 0.725, 'x[2] <= 46.5 \nsquared\_error = 0.021 \nsamples =
28\nvalue = 0.286'),
 Text(0.39312627291242364, 0.675, 'x[1] <= 48.0\nsquared_error = 0.017\nsamples =
25\nvalue = 0.27'),
 Text(0.38574338085539717, 0.625, 'x[1] <= 22.0\nsquared error = 0.0\nsamples =
3\nvalue = 0.167'),
 Text(0.3841140529531568, 0.575, 'x[3] <= 22.5 \nsquared_error = 0.0 \nsamples =
2\nvalue = 0.18'),
 Text(0.3824847250509165, 0.525, 'squared_error = 0.0\nsamples = 1\nvalue = 0.174'),
 Text(0.38574338085539717, 0.525, 'squared error = 0.0 \times 10^{-1} = 1\nvalue =
0.187'),
 Text(0.38737270875763746, 0.575, 'squared_error = 0.0\nsamples = 1\nvalue = 0.14'),
 Text(0.4005091649694501, 0.625, 'x[1] <= 57.0 \nsquared_error = 0.018 \nsamples =
22\nvalue = 0.285'),
 Text(0.3906313645621181, 0.575, 'x[3] \le 24.5 \nsquared\_error = 0.052 \nsamples =
3\nvalue = 0.445'),
 Text(0.3890020366598778, 0.525, 'squared_error = 0.0 \times 10^{-2} = 1 \times 10^{-2} = 1 \times 10^{-2} Text(0.3890020366598778, 0.525, 'squared_error = 0.0 \times 10^{-2} = 1 \times 10^{-2} = 
 Text(0.39226069246435846, 0.525, 'x[1] <= 54.0\nsquared_error = 0.046\nsamples =
2\nvalue = 0.342'),
 Text(0.3906313645621181, 0.475, 'squared_error = 0.0 \times 10^{-1}),
 Text(0.39389002036659876, 0.475, 'squared error = 0.0\nsamples = 1\nvalue =
0.557'),
 Text(0.4103869653767821, 0.575, 'x[1] <= 71.0\nsquared_error = 0.007\nsamples =
19\nvalue = 0.259'),
 Text(0.40122199592668023, 0.525, 'x[1] <= 69.0\nsquared_error = 0.008\nsamples =
10 \setminus \text{nvalue} = 0.282'),
 Text(0.3971486761710794, 0.475, 'x[1] <= 61.0 \nsquared_error = 0.009 \nsamples =
8\nvalue = 0.27'),
 Text(0.39389002036659876, 0.425, 'x[1] <= 59.0\nsquared_error = 0.015\nsamples =
3\nvalue = 0.31'),
 Text(0.39226069246435846, 0.375, 'x[3] <= 24.5\nsquared_error = 0.009\nsamples =
2\nvalue = 0.244'),
 Text(0.3906313645621181, 0.325, 'squared_error = 0.0 \nsamples = 1 \nvalue = 0.151'),
 Text(0.39389002036659876, 0.325, 'squared_error = 0.0\nsamples = 1\nvalue =
 Text(0.3955193482688391, 0.375, 'squared_error = 0.0 \nsamples = 1 \nvalue = 0.444'),
 Text(0.40040733197556005, 0.425, 'x[3] <= 21.5 \nsquared_error = 0.004 \nsamples =
5\nvalue = 0.246'),
 Text(0.39877800407331976, 0.375, 'squared_error = 0.0\nsamples = 1\nvalue =
0.142'),
 Text(0.4020366598778004, 0.375, 'x[3] \le 24.0 \nsquared\_error = 0.001 \nsamples =
4\nvalue = 0.272'),
 Text(0.40040733197556005, 0.325, 'x[1] <= 65.0\nsquared_error = 0.001\nsamples =
3\nvalue = 0.288'),
 Text(0.39877800407331976, 0.275, 'squared_error = 0.0\nsamples = 1\nvalue =
0.314'),
 Text(0.4020366598778004, 0.275, 'x[3] <= 22.5\nsquared error = 0.0\nsamples =
2\nvalue = 0.274'),
 Text(0.40040733197556005, 0.225, 'squared error = 0.0\nsamples = 1\nvalue =
0.256'),
 Text(0.40366598778004076, 0.225, 'squared_error = 0.0\nsamples = 1\nvalue =
0.293'),
 Text(0.40366598778004076, 0.325, 'squared error = 0.0\nsamples = 1\nvalue =
0.223'),
 Text(0.40529531568228105, 0.475, 'x[3] <= 32.0 \nsquared_error = 0.004 \nsamples =
2\nvalue = 0.33'),
 Text(0.40366598778004076, 0.425, 'squared error = 0.0 \nsamples = 1 \nvalue =
0.389'),
 Text(0.4069246435845214, 0.425, 'squared_error = -0.0\nsamples = 1\nvalue = 0.27'),
 Text(0.4195519348268839. 0.525. 'x[3] <= 42.0 \nsauared error = 0.005 \nsamples =
```

```
9\nvalue = 0.234'),
  Text(0.4142566191446029, 0.475, 'x[1] <= 73.0\nsquared error = 0.002\nsamples =
6\nvalue = 0.206'),
  Text(0.41018329938900205, 0.425, 'x[3] <= 27.5\nsquared_error = 0.001\nsamples =
2\nvalue = 0.237'),
 Text(0.4085539714867617, 0.375, 'squared_error = 0.0 \times 10^{-1}),
  Text(0.41181262729124235, 0.375, 'squared_error = 0.0\nsamples = 1\nvalue =
  Text(0.41832993890020365, 0.425, 'x[1] <= 75.0\nsquared_error = 0.002\nsamples =
4\nvalue = 0.191'),
 Text(0.415071283095723, 0.375, 'x[3] <= 28.5\nsquared_error = 0.001\nsamples =
2\nvalue = 0.159'),
  Text(0.4134419551934827, 0.325, 'squared error = 0.0 \times 10^{-1}),
  Text(0.41670061099796335, 0.325, 'squared_error = 0.0\nsamples = 1\nvalue =
0.121'),
  Text(0.4215885947046843, 0.375, 'x[1] <= 77.0 \nsquared_error = 0.0 \nsamples =
2\nvalue = 0.222'),
 Text(0.419959266802444, 0.325, 'squared_error = 0.0 \times 10^{-1}),
  Text(0.42321792260692465, 0.325, 'squared error = 0.0\nsamples = 1\nvalue =
0.238'),
  Text(0.42484725050916494, 0.475, 'x[3] <= 49.5\nsquared_error = 0.007\nsamples =
3\nvalue = 0.29'),
 Text(0.42321792260692465, 0.425, 'squared error = 0.0\nsamples = 1\nvalue =
0.402'),
  Text(0.4264765784114053, 0.425, 'x[3] \le 59.0 \nsquared\_error = 0.001 \nsamples =
2\nvalue = 0.234'),
  Text(0.42484725050916494, 0.375, 'squared_error = 0.0 \nsamples = 1 \nvalue =
0.268'),
  Text(0.42810590631364565, 0.375, 'squared_error = 0.0\nsamples = 1\nvalue = 0.2'),
  Text(0.41364562118126275, 0.675, 'x[2] <= 51.0 \nsquared\_error = 0.034 \nsamples =
3\nvalue = 0.417'),
  Text(0.4120162932790224, 0.625, 'squared_error = 0.0 \times 10^{-2} = 1 \times 10^{-2} = 1 \times 10^{-2} Text(0.4120162932790224, 0.625, 'squared_error = 0.0 \times 10^{-2} = 1 \times 10^{-2} Text(0.4120162932790224, 0.625, 'squared_error = 0.0 \times 10^{-2} = 1 \times 10^{-2} Text(0.4120162932790224, 0.625, 'squared_error = 0.0 \times 10^{-2} Text(0.4120162932790224), 'squared_error = 0.0 \times 10^{-2} Text(0.4120162932790224), 'squared_error = 0.0 \times 10^{-2} Text(0.4120162932790224), 'squared_error = 0.0 \times 10^{-2} Text(0.4120162932790224, 'squared_error = 0.0 \times 10^{-2} Text(0.4120162932790224), 'squared_error = 0.0 \times 10^{-2} Text(0.4120162932790224), 'squared_error = 0.0 \times 10^{-2} Text(0.412016292929292), 'squared_error = 0.0 \times 10^{-2} Text(0.41201629292), 'squared_error = 0.0 \times 10^{-2} Text(0.412016292), 'squared_error = 0.0 \times 10^{-2}
  Text(0.41527494908350304, 0.625, 'x[1] <= 72.0\nsquared_error = 0.0\nsamples =
2\nvalue = 0.286'),
  Text(0.41364562118126275, 0.575, 'squared error = 0.0 \setminus 1.00 = 1 \setminus 1.00
0.267'),
 Text(0.4169042769857434, 0.575, 'squared_error = 0.0 \times 10^{-2} = 1 \times 10^{-2} = 0.306'),
  Text(0.5053844195519348, 0.725, 'x[3] <= 37.5 \nsquared_error = 0.054 \nsamples =
94\nvalue = 0.366'),
  Text(0.4719450101832994, 0.675, 'x[1] <= 67.0\nsquared error = 0.067\nsamples =
60 \text{ nvalue} = 0.396'),
 Text(0.4543788187372709, 0.625, 'x[1] <= 63.0 \nsquared\_error = 0.024 \nsamples =
22\nvalue = 0.332'),
  Text(0.44643584521384927, 0.575, x[0] <= 5.5 \nsquared error = 0.024 \nsamples =
15 \cdot nvalue = 0.364'),
  Text(0.44032586558044806, 0.525, 'x[0] <= 4.5\nsquared_error = 0.024\nsamples =
10 \setminus value = 0.402'),
 Text(0.43625254582484724, 0.475, 'x[3] \le 33.0 \le error = 0.016 \le error = 0.01
7\nvalue = 0.359'),
 Text(0.4329938900203666, 0.425, 'x[3] <= 30.5 \nsquared error = 0.012 \nsamples =
5\nvalue = 0.415'),
  Text(0.4313645621181263, 0.375, 'x[1] <= 58.0 \nsquared_error = 0.003 \nsamples =
4\nvalue = 0.366'),
  Text(0.42810590631364565, 0.325, 'x[3] <= 24.5\nsquared error = 0.0\nsamples =
2\nvalue = 0.321'),
 Text(0.4264765784114053, 0.275, 'squared error = 0.0 \times 10^{-2}),
  Text(0.42973523421588594, 0.275, 'squared_error = 0.0\nsamples = 1\nvalue = 0.34'),
  Text(0.43462321792260694, 0.325, 'x[3] <= 26.0 \nsquared_error = 0.001 \nsamples =
2\nvalue = 0.412'),
  Text(0.4329938900203666, 0.275, 'squared error = 0.0 \times 10^{-2} = 1 \times 10^{-2}
```

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Text(0.43625254582484724, 0.275, 'squared_error = 0.0 \nsamples = 1 \nvalue = 0.38'),
  Text(0.43462321792260694, 0.375, 'squared_error = 0.0\nsamples = 1\nvalue = 0.61'),
  Text(0.4395112016293279, 0.425, 'x[1] <= 31.0 \land error = 0.0 \land error = 
2\nvalue = 0.219'),
  Text(0.4378818737270876, 0.375, 'squared_error = 0.0 \times 10^{-2} = 1 \times 10^{-2} = 0.212^{-1}),
  Text(0.44114052953156824, 0.375, 'squared error = -0.0 \nsamples = 1 \nvalue = -0.0 \nsamples = -0.0 \nsam
0.226'),
  Text(0.4443991853360489, 0.475, 'x[1] <= 54.0 \nsquared_error = 0.028 \nsamples =
3\nvalue = 0.503'),
  Text(0.44276985743380853, 0.425, 'squared error = 0.0 \nsamples = 1 \nvalue =
0.654'),
  Text(0.4460285132382892, 0.425, 'x[1] <= 61.0 \nsquared_error = 0.025 \nsamples =
2\nvalue = 0.428'),
  Text(0.4443991853360489, 0.375, 'squared_error = 0.0 \nsamples = 1 \nvalue = 0.268'),
  Text(0.44765784114052953, 0.375, 'squared error = 0.0 \nsamples = 1 \nvalue =
0.587'),
  Text(0.45254582484725053, 0.525, 'x[3] \le 29.5 \nsquared\_error = 0.015 \nsamples =
5\nvalue = 0.288'),
  Text(0.4509164969450102, 0.475, 'x[3] <= 24.5 \nsquared_error = 0.005 \nsamples =
4\nvalue = 0.235'),
  Text(0.4492871690427699, 0.425, 'squared_error = 0.0 \times 10^{-1} = 1 \times 10^{-1} = 0.356'),
  Text(0.45254582484725053, 0.425, 'x[1] <= 30.0 \nsquared_error = 0.0 \nsamples =
3\nvalue = 0.195'),
  Text(0.4509164969450102, 0.375, 'x[3] <= 27.0\nsquared_error = 0.0\nsamples =
2\nvalue = 0.19'),
  Text(0.4492871690427699, 0.325, 'squared_error = 0.0\nsamples = 1\nvalue = 0.189'),
  Text(0.45254582484725053, 0.325, 'squared_error = -0.0\nsamples = 1\nvalue =
0.19'),
  Text(0.45417515274949083, 0.375, 'squared_error = 0.0\nsamples = 1\nvalue =
0.206'),
  Text(0.45417515274949083, 0.475, 'squared error = 0.0 \ln s = 1 \ln s = 1
0.501'),
  Text(0.4623217922606925, 0.575, 'x[3] \le 26.5 \nsquared\_error = 0.016 \nsamples =
7\nvalue = 0.264'),
  Text(0.45906313645621183, 0.525, 'x[0] <= 5.0 \nsquared\_error = 0.003 \nsamples =
3\nvalue = 0.178'),
  Text(0.4574338085539715, 0.475, 'x[3] <= 22.5\nsquared error = 0.0\nsamples =
2\nvalue = 0.137'),
  Text(0.4558044806517312, 0.425, 'squared_error = 0.0\nsamples = 1\nvalue = 0.148'),
  Text(0.45906313645621183, 0.425, 'squared_error = -0.0\nsamples = 1\nvalue =
0.126'),
  Text(0.4606924643584521, 0.475, 'squared_error = 0.0 \nsamples = 1 \nvalue = 0.26'),
  Text(0.4655804480651731, 0.525, 'x[1] <= 64.5 \nsquared_error = 0.016 \nsamples =
4\nvalue = 0.328'),
  Text(0.4639511201629328, 0.475, 'squared_error = 0.0 \times 10^{-1}),
  Text(0.4672097759674134, 0.475, 'x[0] <= 5.0\nsquared error = 0.009\nsamples =
3\nvalue = 0.384'),
  Text(0.4655804480651731, 0.425, 'x[1] <= 65.5\nsquared error = 0.0\nsamples =
2\nvalue = 0.452'),
  Text(0.4639511201629328, 0.375, 'squared_error = 0.0 \nsamples = 1 \nvalue = 0.432'),
  Text(0.4672097759674134, 0.375, 'squared error = -0.0\nsamples = 1\nvalue =
0.471'),
  Text(0.4688391038696538, 0.425, 'squared error = -0.0 \nsamples = 1 \nvalue =
0.249'),
  Text(0.4895112016293279, 0.625, 'x[3] \le 26.5 \nsquared\_error = 0.088 \nsamples =
38\nvalue = 0.434'),
 Text(0.47535641547861507, 0.575, 'x[2] \le 25.5 \n quared error = 0.133 \n samples =
7\nvalue = 0.609'),
  Text(0.4720977596741344, 0.525, 'x[3] <= 23.0\nsquared error = 0.088\nsamples =
5\nvalue = 0.776'),
  Tay+/0 47046042177100407 0 475 | Leguaned appen = 0 0\neamples = 1\nyalue =
```

```
| ICXC(0.4/04004)1//10740/, 0.4/), | Squareu_critor - 0.0/(IISamptes - 1/(IIVatue -
1.182'),
 Text(0.4737270875763748, 0.475, 'x[3] <= 25.0 \nsquared_error = 0.059 \nsamples =
4\nvalue = 0.674'),
 Text(0.4720977596741344, 0.425, 'squared_error = 0.024 \nsamples = 2 \nvalue =
0.458'),
 Text(0.47535641547861507, 0.425, 'x[1] <= 75.0\nsquared error = 0.0\nsamples =
2\nvalue = 0.891'),
 Text(0.4737270875763748, 0.375, 'squared_error = 0.0\nsamples = 1\nvalue = 0.904'),
 Text(0.4769857433808554, 0.375, 'squared_error = 0.0 \nsamples = 1 \nvalue = 0.878'),
 Text(0.4786150712830957, 0.525, 'x[3] \le 23.0 \nsquared\_error = 0.001 \nsamples = 0
2\nvalue = 0.191'),
 Text(0.4769857433808554, 0.475, 'squared_error = 0.0 \nsamples = 1 \nvalue = 0.223'),
 Text(0.48024439918533607, 0.475, 'squared_error = 0.0\nsamples = 1\nvalue =
0.159'),
 Text(0.5036659877800407, 0.575, 'x[1] <= 109.0 \nsquared_error = 0.069 \nsamples =
31\nvalue = 0.394'),
 Text(0.5020366598778004, 0.525, 'x[1] <= 91.0\nsquared error = 0.068\nsamples =
30\nvalue = 0.384'),
 Text(0.4945010183299389, 0.475, 'x[1] <= 87.0 \nsquared_error = 0.071 \nsamples =
27\nvalue = 0.406'),
 Text(0.4859470468431772, 0.425, 'x[0] <= 5.5\nsquared_error = 0.075\nsamples =
23\nvalue = 0.387'),
 Text(0.48024439918533607, 0.375, 'x[2] <= 21.0 \nsquared\_error = 0.084 \nsamples =
18 \cdot nvalue = 0.432'),
 Text(0.4786150712830957, 0.325, 'x[3] <= 30.5 \nsquared_error = 0.084 \nsamples =
17 \cdot nvalue = 0.448'),
 Text(0.4737270875763748, 0.275, 'x[3] \le 29.5 \nsquared\_error = 0.005 \nsamples =
7\nvalue = 0.349'),
 Text(0.4720977596741344, 0.225, 'x[0] <= 4.5 \nsquared_error = 0.002 \nsamples =
6\nvalue = 0.373'),
 Text(0.4688391038696538, 0.175, 'x[1] <= 70.0\nsquared_error = 0.003\nsamples =
2\nvalue = 0.344'),
 Text(0.47046843177189407, 0.125, 'squared_error = 0.0\nsamples = 1\nvalue =
0.294'),
 Text(0.47535641547861507, 0.175, 'x[1] <= 75.5 \nsquared_error = 0.001 \nsamples =
4\nvalue = 0.388'),
 Text(0.4737270875763748, 0.125, 'x[3] <= 27.5\nsquared error = 0.001\nsamples =
3\nvalue = 0.404'),
 Text(0.4720977596741344, 0.075, 'squared_error = 0.0\nsamples = 2\nvalue = 0.388'),
 Text(0.47535641547861507, 0.075, 'squared_error = 0.0\nsamples = 1\nvalue =
 Text(0.4769857433808554, 0.125, 'squared error = 0.0\nsamples = 1\nvalue = 0.34'),
 Text(0.47535641547861507, 0.225, 'squared_error = -0.0 \nsamples = 1 \nvalue =
0.201'),
 Text(0.4835030549898167, 0.275, 'x[3] <= 31.5 \nsquared_error = 0.127 \nsamples =
10 \setminus \text{nvalue} = 0.517'),
 Text(0.48187372708757636, 0.225, 'squared error = 0.0\nsamples = 1\nvalue =
0.803'),
 Text(0.485132382892057, 0.225, 'x[0] <= 4.5\nsquared_error = 0.131\nsamples =
9\nvalue = 0.485'),
 Text(0.48187372708757636, 0.175, 'x[3] <= 33.5 \nsquared_error = 0.061 \nsamples =
3\nvalue = 0.364'),
 Text(0.48024439918533607, 0.125, 'x[1] <= 71.5 \nsquared error = 0.002 \nsamples =
2\nvalue = 0.192'),
 Text(0.4786150712830957, 0.075, 'squared_error = 0.0 \nsamples = 1 \nvalue = 0.145'),
 Text(0.48187372708757636, 0.075, 'squared_error = -0.0\nsamples = 1\nvalue =
0 22017
```

from sklearn.tree import plot_tree

```
from sklearn.tree import DecisionTreeRegressor
import matplotlib.pyplot as plt
```

plt.figure()
Use DecisionTreeRegressor for continuous target variables
d1=DecisionTreeRegressor(criterion="squared_error").fit(x_train,y_train)
plot_tree(d1, filled=True)
plt.title("Decision tree on training data of dataset")
plt.show()



Decision tree on training data of dataset

