(400, 5 datase Index([datase	t.columns 'User ID', 'Gender', 'Age', 'EstimatedSalary', 'Purchased'], dtype='object') t.isna().any()
Purchas dtype: datase User II Gender Age	False False False dedSalary False bool t.isna().sum() 0 0 0 0 dedSalary 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
from s Gender datase	klearn.preprocessing import LabelEncoder =LabelEncoder() t['Gender']=Gender.fit_transform(dataset['Gender']) t SerID Gender Age EstimatedSalary Purchased
0 156 1 158 2 156 3 156 4 158 395 156 396 157 397 156 398 157 399 158	810944 1 35 20000 0 868575 0 26 43000 0 803246 0 27 57000 0 804002 1 19 76000 0 891863 0 46 41000 1 806071 1 51 23000 1 854296 0 50 20000 1 855018 1 36 33000 0
featur X=data y=data	<pre>x 5 columns e_cols=['Gender', 'Age', 'EstimatedSalary'] set[feature_cols] set.Purchased nder Age EstimatedSalary 1 19 19000 1 35 20000</pre>
2 3 4 395 396 397 398 399 00 rows	0 26 43000 0 27 57000 1 19 76000 0 46 41000 1 51 23000 0 50 20000 1 36 33000 0 49 36000 × 3 columns
395 396 397 398 399 Name: F	0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1
from s X_trai eature S from s	klearn.model_selection import train_test_split n, X_test, y_train, y_test = train_test_split(X,y,test_size=0.2)
X_test itting De from s classi classi	<pre>n = sc.fit_transform(X_train) = sc.transform(X_test) ecision Tree Classification to the Training set klearn.tree import DecisionTreeClassifier fier=DecisionTreeClassifier(criterion='gini') fier.fit(X_train,y_train) entreeClassifier()</pre>
classi array([X_test	g the Test set results fier .predict(X_test) (0, 1, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 1, 1, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 1, 1, 0, 1, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1], dtype=int64) [[-0.98142253, -1.66291941, 0.36467588], [-0.98142253, 0.74576609, -1.37446394], [-0.98142253, -0.45857666, -0.53387969],
	[1.01892912, -0.73650191,
	[1.01892912,
	[-0.98142253, 1.39425834, 0.36467588], [-0.98142253, 0.93104959, 1.7849734], [1.01892912, -0.18065141, -0.27300872], [1.01892912, -0.73650191, 0.56757553], [-0.98142253, 0.09727384, 1.8719304], [1.01892912, -0.27329316, -0.88170766], [1.01892912, 0.37519909, -0.1280804], [-0.98142253, 1.95010884, -0.79475067], [-0.98142253, -0.18065141, 0.16177624], [-0.98142253, -0.92178541, -0.30199438], [-0.98142253, -0.08800966, 0.68351818], [1.01892912, -0.92178541, 0.56757553], [1.01892912, -1.19971066, 0.59656119], [1.01892912, -1.3949416, -0.1380491], [-0.98142253, -1.57027766, -1.54837792], [1.01892912, -1.38499416, -0.18605173],
	[1.01892912, 0.09727384, 0.21974756], [1.01892912, -0.82914366, 0.30670455], [1.01892912, -0.64386016, -0.09909474], [1.01892912, 1.95010884, 2.13280137], [-0.98142253, 0.83840784, -0.64982235], [1.01892912, 0.28255734, -0.50489403], [-0.98142253, 0.83840784, -0.56286536], [-0.98142253, 0.83840784, 2.16178703], [1.01892912, -1.10706891, -1.57736359], [1.01892912, -0.37519909, 1.00236048], [1.01892912, 0.37519909, 1.37917411], [-0.98142253, 2.04275059, 1.11830314], [1.01892912, 0.37519909, -0.4469227], [1.01892912, 0.18991559, -0.35996571], [1.01892912, 0.00463209, -0.30199438], [-0.98142253, -0.27329316, -0.73677934],
0.875	[1.01892912, 1.02369134, -0.1280804], [1.01892912, 0.28255734, 0.27771889], [1.01892912, -0.73650191, 0.5096042], [1.01892912, 0.18991559, -0.35996571], [-0.98142253, 0.18991559, 0.07481924], [1.01892912, 0.00463209, 0.04583358], [1.01892912, -0.92178541, -1.0846073], [-0.98142253, -0.27329316, 0.79946084], [-0.98142253, -0.64386016, 1.40815978]]) fier .score(X_test, y_test)
from s cm = c print([53 9] [1 17)]
Text(3 Text(4 Text(6 Te	<pre>gure(figsize=(12,8)) klearn import tree lot_tree(classifier.fit(X_train, y_train)) 60.375, 419.3485714285714, 'X[1] <= 0.422\ngini = 0.476\nsamples = 320\nvalue = [195, 125]'), 85.07000000000002, 388.2857142857143, 'X[2] <= 0.582\ngini = 0.291\nsamples = 221\nvalue = [182, 39]'), 85.100000000000001, 357.22285714285715, 'X[1] <= -0.134\ngini = 0.083\nsamples = 185\nvalue = [177, 8]'), 60.220000000000000, 326.1599999999997, 'gini = 0.0\nsamples = 122\nvalue = [122, 0]'), 9.98, 326.1599999999997, 'X[2] <= -0.056\ngini = 0.222\nsamples = 63\nvalue = [55, 8]'), 65.100000000000001, 295.09714285714284, 'gini = 0.0\nsamples = 31\nvalue = [31, 0]'), 84.86, 295.09714285714284, 'X[2] <= 0.408\ngini = 0.375\nsamples = 32\nvalue = [24, 8]'), 9.98, 264.0342857142857, 'X[2] <= 0.031\ngini = 0.35\nsamples = 31\nvalue = [1, 1]'), 89.76, 232.97142857142856, 'X[0] <= 0.019\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'), 84.88, 201.9085714285714, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), 84.64, 201.9085714285714, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 830.200000000000002, 232.97142857142856, 'X[2] <= 0.089\ngini = 0.328\nsamples = 29\nvalue = [23, 6]'),</pre>
Text(8 Text(8 Text(1)	'4.4, 201.9085714285714, 'X[0] <= 0.019\ngini = 0.165\nsamples = 11\nvalue = [10, 1]'), '9.52, 170.84571428571428, 'gini = 0.0\nsamples = 6\nvalue = [6, 0]'), '9.28, 170.84571428571428, 'X[1] <= 0.144\ngini = 0.32\nsamples = 5\nvalue = [4, 1]'), '4.4, 139.78285714285715, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]'), '0.4.16000000000001, 139.78285714285715, 'X[2] <= 0.06\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'), '9.28, 108.7199999999997, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), '1.9.04, 108.7199999999997, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), '1.86.0, 201.9085714285714, 'X[2] <= 0.118\ngini = 0.401\nsamples = 18\nvalue = [1, 1]'), '1.88.170.84571428571428, 'X[0] <= 0.019\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'), '1.9.33.9200000000000, 139.78285714285715, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), '1.9.34.93.9200000000000, 170.84571428571428, 'X[2] <= 0.234\ngini = 0.375\nsamples = 16\nvalue = [1, 4]'), '1.9.3.20000000000000, 170.84571428571428, 'X[2] <= 0.234\ngini = 0.375\nsamples = 16\nvalue = [1, 4]'), '1.9.344, 139.78285714285715, 'X[0] <= 0.019\ngini = 0.245\nsamples = 7\nvalue = [6, 1]'), '1.9.344, 73.65714285714284, 'gini = 0.0\nsamples = 1\nvalue = [2, 0]'), '1.9.344, 77.65714285714284, 'gini = 0.0\nsamples = 1\nvalue = [2, 0]'), '1.9.344, 77.65714285714284, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), '1.9.344, 77.65714285714284, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), '1.9.344, 77.65714285714284, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), '1.9.344, 77.65714285714284, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), '1.9.344, 77.65714285714284, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), '1.9.344, 77.65714285714284, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), '1.9.344, 77.65714285714284, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), '1.9.344, 77.65714285714284, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), '1.9.344, 77.65714285714284, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), '1.9.344, 77.65714285714284, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), '1.9.344, 77.65714285714284, 'gini = 0.0\nsampl
Text(2 Text(3	### 152.96, 139.78285714285715, 'X[2] <= 0.263\ngini = 0.444\nsamples = 9\nvalue = [6, 3]'), #### 138.08, 108.719999999999, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), #### 138.08, 77.65714285714284, 'X[1] <= 0.236\ngini = 0.278\nsamples = 6\nvalue = [5, 1]'), #### 138.08, 77.65714285714284, 'X[1] <= 0.236\ngini = 0.278\nsamples = 6\nvalue = [5, 1]'), #### 138.08, 77.6571428571428572, 'gini = 0.0\nsamples = 4\nvalue = [4, 0]'), #### 152.20000000000002, 46.59428571428572, 'gini = 0.0\nsamples = 2\nvalue = [1, 1]'), #### 153.1428571428572, 'X[2] <= 0.292\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'), #### 153.1428571428573, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), #### 153.1428571428573, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), #### 153.1428571428572, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), #### 153.1428571428572, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), #### 153.1428571428572, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), ### 153.04, 357.2228571428572, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), ### 153.04, 357.22285714285715, 'X[1] <= -1.061\ngini = 0.23\nsamples = 36\nvalue = [5, 31]'), ### 153.04, 357.22285714285714284, 'X[2] <= 1.278\ngini = 0.202\nsamples = 35\nvalue = [4, 31]'), ### 153.04, 295.09714285714284, 'X[2] <= 1.278\ngini = 0.375\nsamples = 16\nvalue = [1, 1]'), ### 153.04, 295.097142857142857, 'X[1] <= -0.875\ngini = 0.26\nsamples = 13\nvalue = [2, 11]'), ### 153.08, 232.97142857142856, 'X[2] <= 0.684\ngini = 0.575\ngini = 0.20nsamples = 13\nvalue = [1, 1]'), ### 153.08, 232.97142857142856, 'X[2] <= 0.684\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'), ### 153.08, 232.97142857142856, 'X[2] <= 0.684\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'), ### 153.08, 232.97142857142856, 'X[2] <= 0.684\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'), ### 153.08, 232.97142857142856, 'X[2] <= 0.684\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'), ### 153.08, 232.97142857142856, 'X[2] <= 0.684\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'), ### 153.08, 232.97142857142856, 'X[2] <= 0.684\ngini = 0.5\nsamples = 2\nvalue = [1,
Text(2) Text(2) Text(2) Text(2) Text(2) Text(3) Text(3) Text(3) Text(3) Text(4) Text(5) Text(5) Text(5) Text(5) Text(5)	23.2000000000000, 201.9085714285714, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), 152.96, 201.9085714285714, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 197.6, 232.9714285714, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 197.6, 232.9714285714, 'gini = 0.0\nsamples = 8\nvalue = [0, 8]'), 197.2, 201.9085714285714, 'gini = 0.0\nsamples = 8\nvalue = [0, 8]'), 197.6, 170.84571428571428, 'X[0] <= 0.019\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'), 197.6, 170.84571428571428, 'X[0] <= 0.019\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'), 197.3, 197.8285714285715, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 197.36, 170.84571428571428, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 197.36, 170.84571428571428, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 197.36, 232.971428571428, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 197.36, 232.9714285714285, 'gini = 0.5\nsamples = 2\nvalue = [1, 1]'), 197.37, 232.9714285714285, 'gini = 0.5\nsamples = 2\nvalue = [1, 1]'), 197.39, 232.9714285714285, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), 197.30, 332.9714285714284, 'gini = 0.0\nsamples = 1\nvalue = [0, 19]'), 197.31, 322.9714285714284, 'gini = 0.0\nsamples = 1\nvalue = [0, 19]'), 197.31, 322.9714285714287, 'X[0] <= 0.896\ngini = 0.228\nsamples = 9\nvalue = [13, 86]'), 197.31, 322.9714285714285714285715, 'gini = 0.0\nsamples = 3\nvalue = [0, 31]'), 197.31, 322.9714285714285714285715, 'gini = 0.0\nsamples = 3\nvalue = [0, 31]'), 197.31, 322.9714285714285714285715, 'gini = 0.0\nsamples = 3\nvalue = [0, 31]'), 197.31, 322.9714285714285714285715, 'gini = 0.0\nsamples = 3\nvalue = [0, 31]'), 197.31, 322.9714285714285714285715, 'gini = 0.0\nsamples = 3\nvalue = [0, 31]'), 197.31, 322.9714285714285714285715, 'gini = 0.0\nsamples = 3\nvalue = [0, 31]'), 197.31, 322.9714285714285714285715, 'gini = 0.0\nsamples = 3\nvalue = [0, 31]'), 197.31, 322.9714285714285714285715, 'gini = 0.0\nsamples = 3\nvalue = [0, 30]\nsamples = 68\nvalue = [13, 55]'), 197.31, 322.9714285714285714285715, 'gini = 0.423\ngini = 0.444\nsamples = 44\nvalue = [12, 29]'),
Text(4 Text(3 Text(3 Text(4 Te	1.5200000000000004, 295.097142857142857, 'X[2] <= -0.418\ngni = 0.5\nsamples = 16\nvalue = [8, 8]'), 1.760000000000005, 264.0342857142857, 'X[2] <= -0.722\ngini = 0.444\nsamples = 9\nvalue = [3, 6]'), 1.76000000000005, 264.0342857142857, 'X[2] <= -0.722\ngini = 0.444\nsamples = 9\nvalue = [3, 6]'), 1.7600000000005, 264.0342857142857, 'X[2] <= -0.553\ngini = 0.375\nsamples = 6\nvalue = [1, 3]'), 1.760000000000000000000, 'X[1] <= 0.653\ngini = 0.375\nsamples = 4\nvalue = [1, 3]'), 1.7600000000000000, 201.9085714285714, 'gini = 0.0\nsamples = 3\nvalue = [0, 3]'), 1.760000000000000, 201.9085714285714, 'gini = 0.0\nsamples = 2\nvalue = [0, 3]'), 1.760000000000000, 232.97142857142856, 'gini = 0.0\nsamples = 3\nvalue = [0, 3]'), 1.76000000000000, 232.97142857142856, 'gini = 0.0\nsamples = 2\nvalue = [0, 3]'), 1.760000000000000, 232.97142857142856, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), 1.760000000000000, 232.97142857142856, 'gini = 0.0\nsamples = 5\nvalue = [2, 0]'), 1.760000000000000, 232.97142857142857, 'X[0] <= 0.085\ngini = 0.408\nsamples = 5\nvalue = [2, 0]'), 1.760000000000000, 201.9085714285714, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), 1.760000000000000, 201.9085714285714, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), 1.760000000000000, 201.9085714285714, 'gini = 0.0\nsamples = 3\nvalue = [1, 0]'), 1.76000000000000000, 201.9085714285714, 'gini = 0.0\nsamples = 3\nvalue = [1, 0]'), 1.7600000000000000, 201.9085714285714, 'X[1] <= 0.699\ngini = 0.5\nsamples = 3\nvalue = [1, 0]'), 1.7600000000000000, 201.9085714285714, 'X[1] <= 0.00000000000000000, 1.760000000000000000, 1.760000000000000, 1.76000000000000, 1.760000000000000, 1.76000000000000, 1.760000000000000, 1.7600000000000000, 1.76000000000000000000, 1.76000000000000000000000000000000000000
Text(5) Text(6)	
Text(6) Text(6) Text(6) Text(6) Text(6) Text(6) Text(6) Text(6)	324.96, 326.1599999999997, 'X[1] <= 1.904\ngini = 0.071\nsamples = 27\nvalue = [1, 26]'), 310.08, 295.09714285714284, 'gini = 0.0\nsamples = 18\nvalue = [0, 18]'), 319.84, 295.09714285714284, 'X[1] <= 1.996\ngini = 0.198\nsamples = 9\nvalue = [1, 8]'), 324.96, 264.0342857142857, 'X[2] <= 0.466\ngini = 0.375\nsamples = 4\nvalue = [1, 3]'), 310.08, 232.97142857142856, 'X[2] <= 0.292\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'), 310.08, 232.9714285714, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 310.08, 232.9714285714, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 310.08, 232.97142857142857, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'), 310.08, 232.97142857142857, 'gini = 0.0\nsamples = 5\nvalue = [0, 5]')]
200 or 2,023 200 or 2,023 200 or 2,03 200 or 2,03	第三十三日 第二十三日 第三十三日 第二十三日 第二十三日 第二十三日 第二十三日 第二十三日 第二十三日 第二十三日 第三十三日 第二十三日 第二十二日 21-1211111111111111111111111111111111
from stree.p	g the Test set results klearn import tree lot_tree(classifier) 80.1875, 209.6742857142857, 'X[1] <= 0.422\ngini = 0.476\nsamples = 320\nvalue = [195, 125]'), 12.535000000000001, 194.14285714285714, 'X[2] <= 0.582\ngini = 0.291\nsamples = 221\nvalue = [182, 39]'), 12.5550000000000004, 178.61142857142858, 'X[1] <= -0.134\ngini = 0.083\nsamples = 185\nvalue = [177, 8]'), 15.110000000000003, 163.079999999999, 'gini = 0.0\nsamples = 122\nvalue = [122, 0]'), 19.99, 163.0799999999999, 'X[2] <= -0.056\ngini = 0.222\nsamples = 63\nvalue = [55, 8]'), 12.5500000000000004, 147.54857142857142, 'gini = 0.0\nsamples = 31\nvalue = [31, 0]'), 17.43, 147.54857142857142, 'X[2] <= 0.408\ngini = 0.375\nsamples = 32\nvalue = [24, 8]'), 19.99, 132.01714285714286, 'X[2] <= 0.031\ngini = 0.35\nsamples = 31\nvalue = [24, 7]'),
Text(1) Text(2) Text(2) Text(2) Text(2) Text(2) Text(3) Text(4) Text(5) Text(5) Text(6)	4.88, 116.48571428571428, 'X[0] <= 0.019\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'),
Text(8 Text(9 Text(1)	99.28, 54.359999999999985, 'X[1] <= 0.144\ngini = 0.444\nsamples = 3\nvalue = [2, 1]'), 11.84, 38.82857142857142, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 16.72, 38.82857142857142, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), 16.41.160000000001, 54.35999999999985, 'gini = 0.0\nsamples = 4\nvalue = [4, 0]'), 16.44.1600000000001, 54.35999999999985, 'gini = 0.444\nsamples = 9\nvalue = [6, 3]'), 19.04, 54.3599999999985, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 19.04, 54.35999999999985, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 19.04, 38.82857142857142, 'X[1] <= 0.236\ngini = 0.278\nsamples = 6\nvalue = [5, 1]'), 11.6000000000001, 23.29714285714286, 'gini = 0.0\nsamples = 4\nvalue = [4, 0]'), 12.6.48, 23.29714285714286, 'X[2] <= 0.292\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'), 19.04, 7.765714285714267, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), 13.3.92000000000002, 7.765714285714267, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 13.3.920000000000002, 7.765714285714267, 'gini = 0.0\nsamples = 2\nvalue = [0, 1]'), 13.3.920714285714286, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 14.36, 23.29714285714286, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 14.3700000000000005, 132.01714285714286, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), 15.5.52, 178.61142857142858, 'X[1] <= -1.061\ngini = 0.239\nsamples = 36\nvalue = [5, 31]'),
Text(1)	.45.08, 163.079999999998, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), .59.96, 163.079999999998, 'X[2] <= 1.394\ngini = 0.202\nsamples = 35\nvalue = [4, 31]'), .52.52, 147.54857142857142, 'X[2] <= 1.278\ngini = 0.375\nsamples = 16\nvalue = [4, 12]'), .33.9200000000000, 132.01714285714286, 'X[1] <= -0.875\ngini = 0.26\nsamples = 13\nvalue = [2, 11]'), .19.04, 116.48571428571428, 'X[2] <= 0.684\ngini = 0.5\nsamples = 2\nvalue = [1, 0]'), .11.60000000000001, 100.9542857142857, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), .48.8, 116.48571428571428, 'X[2] <= 1.104\ngini = 0.165\nsamples = 11\nvalue = [1, 10]'), .41.36, 100.9542857142857, 'gini = 0.0\nsamples = 8\nvalue = [0, 8]'), .56.24, 100.9542857142857, 'X[2] <= 1.176\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'), .48.8, 85.422857142857, 'X[0] <= 0.019\ngini = 0.5\nsamples = 2\nvalue = [1, 1]'), .41.36, 69.8914285714285, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), .56.24, 69.8914285714285, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), .56.24, 69.8914285714285, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), .56.24, 69.8914285714285, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), .56.368, 85.42285714285714, 'gini = 0.0\nsamples = 1\nvalue = [0, 1]'), .57.1.12, 132.01714285714286, 'X[0] <= 0.019\ngini = 0.444\nsamples = 3\nvalue = [2, 1]'), .58.56, 116.48571428571428, 'gini = 0.5\nsamples = 2\nvalue = [1, 0]'),
Text(1) Text(1) Text(1) Text(1)	1.67.4, 147.54857142857142, 'gini = 0.0\nsamples = 19\nvalue = [0, 10]'), 1.67.8400000000003, 194.14285714285714, 'X[2] <= -0.896\ngini = 0.228\nsamples = 99\nvalue = [13, 86]'), 1.60.4000000000003, 178.61142857142858, 'gini = 0.0\nsamples = 31\nvalue = [0, 31]'), 1.75.2800000000003, 178.61142857142858, 'X[1] <= 1.348\ngini = 0.309\nsamples = 68\nvalue = [13, 55]'), 1.76.280.0000000003, 178.61142857142858, 'X[1] <= 1.348\ngini = 0.309\nsamples = 68\nvalue = [13, 55]'), 1.76.280.00000000002, 147.54857142857142, 'X[2] <= -0.418\ngini = 0.5\nsamples = 16\nvalue = [8, 8]'), 1.76.280000000000002, 132.01714285714286, 'X[2] <= -0.722\ngini = 0.5\nsamples = 9\nvalue = [8, 8]'), 1.76.280.180000000000002, 132.01714285714286, 'X[2] <= -0.722\ngini = 0.5\nsamples = 6\nvalue = [3, 3]'), 1.76.280.18000000000000000000000000000000000
Text(1) Text(1) Text(1) Text(2) Text(2) Text(2) Text(2) Text(2) Text(2) Text(1) Text(1) Text(1) Text(2)	223.20000000000002, 116.48571428571428, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), 238.08, 116.48571428571428, 'X[2] <= -0.085\ngini = 0.48\nsamples = 5\nvalue = [3, 2]'), 230.640000000001, 100.9542857142857, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
Text(1) Text(1) Text(2) Text(3) Text(3) Text(4) Text(4	23.2000000000002, 116.48571428571428, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), 238.08, 116.48571428571428, 'X[2] <= -0.085\ngini = 0.48\nsamples = 5\nvalue = [3, 2]'),
Text (1) Text (1) Text (2) Text (2) Text (2) Text (2) Text (2) Text (3) Text (3) Text (4) Text (4) Text (4) Text (4) Text (2) Text (3) Text (3) Text (3) Text (4) Text (4) Text (5) Text (6) Text (6) Text (7) Tex	23.2000000000000, 116.48571428571428, 'gini = 0.0\nsamples = 2\nvalue = [2, 0]'), 238.08, 116.48571428571428, 'K[2] <= -0.085\ngini = 0.0\nsamples = 5\nvalue = [3, 2]'), 230.640000000001, 100.9542857142857, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), 245.52, 100.9542857142857, 'X[1] <= 0.699\ngini = 0.5\nsamples = 4\nvalue = [2, 2]'), 238.08, 85.42285714285714, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), 245.52, 69.891428571428514, 'X[1] <= 0.977\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'), 245.52, 69.89142857142858, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'), 246.4000000000003, 69.89142857142858, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), 246.40000000000003, 147.54857142857142, 'X[2] <= 0.684\ngini = 0.269\nsamples = 25\nvalue = [4, 21]'), 247.296, 132.01714285714286, 'gini = 0.0\nsamples = 7\nvalue = [0, 7]'), 248.4000000000003, 132.01714285714286, 'X[2] <= 0.901\ngini = 0.346\nsamples = 18\nvalue = [4, 14]'), 249.40000000000003, 16.48571428571428, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), 249.40000000000003, 16.48571428571428, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), 249.40000000000003, 16.48571428571428, 'X[1] <= 0.885\ngini = 0.291\nsamples = 17\nvalue = [3, 14]'), 249.40000000000003, 16.48571428571428, 'X[1] <= 0.0\nsamples = 1\nvalue = [1, 0]'), 249.40000000000003, 16.485714285714287, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), 249.4000000000003, 16.485714285714287, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'), 249.4000000000003, 16.4228571428571

Decision_Trees_Assignment15

Importing the libraries