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Option 1

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## **C4.5 Decision Tree vs. Random Forest**

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## Project Overview

In this report, I will be comparing two popular classification algorithms, C4.5 Decision Tree (Category 3) and Random Forest (Category 2). For both algorithms, I will analyze three different datasets and compare their results using both Pycharm and Weka. Throughout my explanation, I will use pre-existing packages, such as `sklearn`, to implement these algorithms and demonstrate the processes. All functions will be colored in green, variables in red, and packages as purple. In the end, I will provide the datasets and Weka source code to support the results. The report will conclude with a short summary and an analysis of the algorithms.

---

## Decision Tree (Category 3)

### Overview

The C4.5 Decision Tree is a popular classification algorithm that builds decision trees based on the target feature that provides the most information gain at each step, with the goal of maximizing the entropy of the resulting subsets. The algorithm can be broken down into a few basic steps as follows.

1. The algorithm recursively partitions the dataset based on the target feature and calculates the entropy of the target variable for the entire dataset. The entropy is a measure of the purity of the data, so if all instances belong to the same class then the entropy is 0 and its perfectly pure.

$$H(S) = - \sum p(i) * \log_2(p(i))$$

2. Next, we can determine which feature provides the most information gain to create the split based off this data. In the following formula, the information gain (IG) of A is calculated.

$$IG(A) = H(S) - \sum (|S_v| / |S|) * H(S_v)$$

$IG(A)$ : Information gain of attribute A, which measures how much splitting the dataset on attribute A reduces the uncertainty about the class label.

$H(S)$ : Entropy of the dataset S, which measures the impurity or uncertainty of the dataset with respect to the class labels.

$S_v$ : Subset of instances in S that have a specific value v for attribute A.

$|S_v|$ : Number of instances in subset  $S_v$ .

$|S|$ : Total number of instances in dataset S.

$H(S_v)$ : Entropy of subset  $S_v$ , which measures the impurity or uncertainty of the subset with respect to the class labels.

3. The attribute with the highest  $IG(A)$  is chosen as the root of the decision tree, which creates the new split in the data and leads to further child nodes.
4. This process continues until all instances in a branch belong to the same class or when a stopping criterion is met.
5. The decision tree is pruned to avoid overflowing and improve its classification performance.
6. The resulting decision tree can be used to predict the class of new instances based on their features, including the target variable.

## Code Analysis

For each file, we will investigate the steps to implement the C4.5 Decision Tree algorithm in Python with the famous Iris dataset. The outputted accuracy is for the specific data point, whilst the 10-fold cross evaluation accuracy is an average of all the accuracies found with the classifier. Within each section, there will be a general overview, detailed documentation, as well as source code for final clarification.

---

## Load\_tree\_data.py

### General Overview

This file is the first step in implementing the C4.5 decision tree algorithm. It will take in a csv file and read it as a `pandas` data frame to be analyzed.

### Documentation

`Pandas` is an important external library that supports various features in data analysis and data manipulation. For this project, we will import `pandas` under the alias “`pd`” to create a data frame for our csv file.

First, we must define our variables. `Path_base` is the local path to the csv file that contains the data we want to analyze. After this, we use the `pandas` library to define `data` as the csv file that I previously just defined as our `path_base`. Finally, I print the `data` for clarity to see the contents of the newly formed data frame.

## Source Code

The screenshot shows the PyCharm IDE interface. The project structure on the left includes a 'pythonProject' folder containing 'Decision\_Tree' and 'Random\_forests' subfolders, along with 'datasets', 'venv', and 'requirements.txt'. The code editor displays 'load\_tree\_data.py' with the following content:

```
"""Load the csv file and print the data"""

import pandas as pd

path_base = "/Users/ambersautner/Desktop/iris.csv"
data = pd.read_csv(path_base)
print(data)
```

The status bar at the bottom indicates the code is 2:1 LF, UTF-8, 4 spaces, Python 3.11, master branch.

### Tree.py

#### General Overview

In this file, we will implement the C4.5 algorithm and create the decision tree with functions from [sklearn](#). With the results, we will use the 10 fold cross-evaluation method to find the average accuracy of the data.

#### Documentation

Before we can apply the algorithm, we must begin by encoding our data as numerical inputs. Many classification algorithms, such as the C4.5, requires numerical rather than categorical inputs in order to properly split the data into groups and make predictions. It is not logical to split a categorical label, in this case ‘variety’, which is why this step is vital. In the Iris dataset example, we have only one column that contains non-numerical data. This target variable, previously defined as ‘variety’ is also the dependent variable we are trying to predict, which is why we need to encode it as a number. If other columns also had string inputs, then they would also need to be encoded.

First, we define **target\_variable**, which represents the column with the dependent variable that we want to make predictions on based off the other independent variables. This is the main feature

that will provide us the most information gain in the decision tree. In our example, we set it to ‘variety’. To encode the target variable, we create a new instance called `encode_variables` using the `LabelEncoder()` function from the `sklearn` package. (Line 11) This function will encode our target variable with a value between 0 and `n_classes-1`, which allows the algorithm to then partition the dataset. We then use the `fit_transform()` method to encode the target variable as an integer, which is stored back in the data. (Line 12) This function works in conjunction with `LabelEncoder()` to now return the variable as encoded labels.

After this is completed and our `target_variable` is now encoded, we create the variable `X` to represent the independent variables. This is done with the `drop()` function which removes the `target_variable` from the data. In the `drop()` function, we add two parameters so we can remove the `encoded_target_variable` from the first column from the data since it is now encoded. (Line 14) The `Y` variable represent the newly encoded target variable data. (Line 15) We need to do this step because it is preparing the data for the next step, which is splitting into training and testing sets.

Now, we can finally split the dataset into a training and testing set to properly test the algorithm’s accuracy with the `train_test_split()` function from the `sklearn` package. (Line 17) This function works by dividing our data into random train and test subsets for later analysis. First, we will take in the `X` and `Y` variables we just defined, the `test_size` parameter which I chose, and the `random_state` parameter. The `test_size` parameter represents the percentage of data that will be used for testing. For example, if it is set to .5 then half of the data is testing whilst the other half is training. The `random_state` parameter means that the same random seed will be used every time the code is run, which is important because it ensures that the same split is generated each time. I chose a random seed of 1 in order to match Weka’s parameters. This returns four variables, `X_train`, `X_test`, `Y_train`, `Y_test`. These variables are extremely important in assessing the performance of the decision tree algorithm later. `X_train` and `X_test` are both subsets of `X`, whilst the former is used to train the model and the latter is used to assess how well it performed. Similarly, `X_train` and `Y_test` are both subsets of `Y` and are used to train/test the algorithm.

Once this is done, we create an instance of the `DecisionTreeClassifier` class from the `sklearn` package that takes in a few parameters. (Line 19) These include, “`criterion='entropy'`” which will be used to specify the quality of the split criterion. As explained in the overview, `entropy` is the measure of the impurity of the data at a given node, which helps determine which features are best for creating a new decision tree. We must also set the `max_depth` of the decision tree to `None`, meaning it will continue to expand until all leaves are pure. The `random_state` is set to 1, which represents its reproducibility.

Next, will use the `numpy` package to prune the decision tree classifier to ensure that it does not overflow. This is vital in the C4.5 algorithm and is an improvement from the previous ID3 model. The `cost_complexity_pruning_path()` method will find the impurities and return a dictionary with different values of alphas as `ccp_alphas`. Alphas are the parameter that controls the complexity in the tree. We use the training data as parameters in this process. (Line 20) Next, `highest_score` is initialized as -1 because we want to see the highest accuracy score that the decision tree can find. (Line 21)

The following ‘for loop’ will loop through the different alphas found in `ccp_alphas` and within each alpha, a new instance of the `DecisionTreeClassifier` will be created alongside its corresponding alpha value for pruning. (Line 23-30) With this, the classifier is training on `X_train` and `Y_train` and can make predictions on `X_test`. (Line 25) The accuracy of the classifier is calculated based off the `Y_test` and `Y_prediction` from the `sklearn.metrics` package. (Line 27) We state that if the accuracy is higher than the `highest_score`, then the `highest_score` becomes the accuracy and the `best_classifier` becomes the classifier.(Line 28-30) Therefore, the purpose of this loop is to find the alpha value that will yield the highest accuracy score for the classifier.

Finally, we can start to predict the class labels of the test data in `X_test` by using the `dec_tree_classifier` we previously created. This is represented as `y_prediction`. The accuracy of the predictions is calculated by comparing `y_prediction`, which is the predicted labels, with `Y_test`, which is the real labels. (Line 33) The `confusion_matrix` demonstrates the number of true positives, false positives, true negatives, and false negatives of the real labels and predicted labels. (Line 34) Finally, we print these results to analyze them.

Once this is completed, we can calculate the 10-fold cross-validation of the dataset `X` and the `best_classifier` with the help of the `cross_val_score` from the `sklearn` package. This function will evaluate a score based off cross evaluation, which is helpful in testing the performance of our classifier. The four parameters are the classifier, the entire dataset, the encoded variable, and the number of folds to use (`cv`). (Line 38) Finally, we find the average of all the accuracies on all 10 folds and print the results. (Line 39)

### Source Code

```

pythonProject > Decision_Tree > tree.py
pythonProject > Decision_Tree > tree.py <-- Current File
Project: tree.py | load_forest_data.py | encoders.py | forest.py | load_tree_data.py
  1  """Make predictions and 10-fold accuracy"""
  2  from sklearn.model_selection import train_test_split
  3  from sklearn.preprocessing import LabelEncoder
  4  from sklearn.tree import DecisionTreeClassifier
  5  from sklearn.metrics import accuracy_score, confusion_matrix
  6  from sklearn.model_selection import cross_val_score
  7  from Decision_Tree.load_tree_data import data
  8
  9  target_variable = 'variety'
 10
 11  encode_variables = LabelEncoder()
 12  data[target_variable] = encode_variables.fit_transform(data[target_variable])
 13
 14  X = data.drop(target_variable, axis=1)
 15  Y = data[target_variable]
 16
 17  X_train, X_test, Y_train, Y_test = train_test_split(X, Y, test_size=0.3, random_state=1)
 18
 19  dec_tree_classifier = DecisionTreeClassifier(criterion='entropy', max_depth=None, random_state=1)
 20  ccp_alphas = dec_tree_classifier.cost_complexity_pruning_path(X_train, Y_train)[["ccp_alphas"]]
 21  highest_score = -1
 22
 23  for ccp_alpha in ccp_alphas:
 24      classifier = DecisionTreeClassifier(criterion='entropy', max_depth=None, random_state=1, ccp_alpha=round(ccp_alpha, 6))
 25      classifier.fit(X_train, Y_train)
 26      Y_prediction = classifier.predict(X_test)
 27      accuracy = accuracy_score(Y_test, Y_prediction)
 28      if accuracy > highest_score:
 29          highest_score = accuracy

```

The screenshot shows the PyCharm IDE interface with the code for `tree.py` open. The code implements a decision tree classifier with pruning, calculates its accuracy on a test set, and then performs 10-fold cross-validation. The PyCharm interface includes toolbars, a project tree, and various status indicators at the bottom.

A screenshot of the PyCharm IDE interface. The main area shows a Python script named 'tree.py' with code related to decision trees. The code includes importing libraries like sklearn, defining variables X\_train, X\_test, Y\_train, Y\_test, and performing cross-validation. A warning message 'Name 'best\_classifier' can be undefined' is visible at the bottom left of the code editor. The bottom status bar shows the current time as 32:16, file encoding as LF, character set as UTF-8, and code style as 4 spaces. The Python version is listed as Python 3.11, and the current branch is master.

```
pythonProject > Decision_Tree > tree.py
17 X_train, X_test, Y_train, Y_test = train_test_split(X, Y, test_size=0.3, random_state=1)
18
19 dec_tree_classifier = DecisionTreeClassifier(criterion='entropy', max_depth=None, random_state=1)
20 ccp_alphas = dec_tree_classifier.cost_complexity_pruning_path(X_train, Y_train)[ "ccp_alphas" ]
21 highest_score = -1
22
23 for ccp_alpha in ccp_alphas:
24     classifier = DecisionTreeClassifier(criterion='entropy', max_depth=None, random_state=1, ccp_alpha=round(ccp_alpha, 6))
25     classifier.fit(X_train, Y_train)
26     Y_prediction = classifier.predict(X_test)
27     accuracy = accuracy_score(Y_test, Y_prediction)
28     if accuracy > highest_score:
29         highest_score = accuracy
30         best_classifier = classifier
31
32 Y_prediction = best_classifier.predict(X_test)
33 accuracy = accuracy_score(Y_test, Y_prediction)
34 confusion_matrix = confusion_matrix(Y_test, Y_prediction)
35 print("Accuracy:", accuracy)
36 print("Confusion matrix:\n", confusion_matrix)
37
38 scores = cross_val_score(best_classifier, X, Y, cv=10)
39 print("10-fold cross-validation accuracy:", scores.mean())
40
```

```
"""Make predictions and 10-fold accuracy"""
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import LabelEncoder
from sklearn.tree import DecisionTreeClassifier
from sklearn.metrics import accuracy_score, confusion_matrix
from sklearn.model_selection import cross_val_score
from Decision_Tree.load_tree_data import data

target_variable = 'variety'

encode_variables = LabelEncoder()
data[target_variable] = encode_variables.fit_transform(data[target_variable])

X = data.drop(target_variable, axis=1)
Y = data[target_variable]

X_train, X_test, Y_train, Y_test = train_test_split(X, Y, test_size=0.3, random_state=1)

dec_tree_classifier = DecisionTreeClassifier(criterion='entropy', max_depth=None,
random_state=1)
ccp_alphas = dec_tree_classifier.cost_complexity_pruning_path(X_train, Y_train)[ "ccp_alphas" ]
highest_score = -1

for ccp_alpha in ccp_alphas:
    classifier = DecisionTreeClassifier(criterion='entropy', max_depth=None, random_state=1,
```

```

ccp_alpha=round(ccp_alpha, 6))
classifier.fit(X_train, Y_train)
Y_prediction = classifier.predict(X_test)
accuracy = accuracy_score(Y_test, Y_prediction)
if accuracy > highest_score:
    highest_score = accuracy
    best_classifier = classifier

Y_prediction = best_classifier.predict(X_test)
accuracy = accuracy_score(Y_test, Y_prediction)
confusion_matrix = confusion_matrix(Y_test, Y_prediction)
print("Accuracy:", accuracy)
print("Confusion matrix:\n", confusion_matrix)

scores = cross_val_score(best_classifier, X, Y, cv=10)
print("10-fold cross-validation accuracy:", scores.mean())

```

## Random Forest (Category 2)

### Overview

Random Forest is a popular machine learning algorithm used for both classification and regression. In this report, we will focus on using the Random Forest algorithm to classify datasets and make predictions. It works by building multiple decision trees on random subsets, then using the average prediction of the trees to draw a conclusion. Each tree in the forest is trained on a different subset of the training data, and the subsets are randomly sampled with replacement. Unlike C4.5 that uses pruning, this algorithm relies on randomness in the selection of features to avoid overfitting. The process can be broken down into the following steps.

1. First, the algorithm will randomly select a subset of the input features from the dataset, which will be used in growing decision trees.
2. Then, the algorithm will continuously repeat to grow a forest of decision trees, where each tree is trained on a random subset of the data and a random subset of the features.
3. To make predictions on new data points, we apply all the newly created decision trees on the data point, which creates various output labels. Each tree's prediction is then counted as a "vote" for that label. The label that receives the most votes is chosen as the final prediction for the selected data point.

### Code Analysis

#### **Load\_forest\_data.py**

##### *General Overview*

This file is a replicate of C4.5's *load\_tree\_data.py*. It aims to load the dataset and specify the target variable that we will be focusing on.

##### *Documentation*

First, we must define our variables. **Path\_base** is the local path to the csv file that contains the data we want to analyze. After this, we use the **pandas** library to define **data** as the csv file that I previously just defined as our **path\_base**. Finally, I print the **data** for clarity to see the contents of the newly formed data frame.

### *Source Code*

```
"""Load the csv file and print the data"""
import pandas as pd

target_variable = "variety"
path_base = "/Users/ambersautner/Desktop/iris.csv"
data = pd.read_csv(path_base)
print(data)
```

### **Forest.py**

#### *General Overview*

In this file, we will be encoding our target feature and implementing the Random Forest algorithm. With the results, we will use the 10 fold cross-evaluation method to find the average accuracy of the data.

#### *Documentation*

The beginning of this file is similar to C4.5 but branches off after splitting the data. Before we can apply the algorithm, we must begin by encoding our data as numerical inputs. Many classification algorithms, such as the C4.5 and Random Forest, requires numerical rather than categorical inputs in order to properly split the data into groups and make predictions. In the Iris dataset example, we have one column that contains non-numerical data. This target variable, previously defined as ‘variety’ is also the dependent variable we are trying to predict, which is why we need to encode it as a number. If other columns also had string inputs, then they would also need to be encoded despite not being the target variable.

**Target\_variable** represents the column with the dependent variable that we want to make predictions on based off the other independent variables. To encode the target variable, we first create a new instance called **encode\_variables** using the **LabelEncoder()** function from the **sklearn** package. (Line 10) We then use the **fit\_transform()** method to encode the target variable as an integer, which is stored back in the data. (Line 11)

After this is completed and our **target\_variable** is now encoded, we create the variable **X** to represent the independent variables. This is done with the **drop()** function which drops the **target\_variable** from the data. In the **drop()** function, we add the two parameters so we can remove the encoded data from the first column. (Line 13) The **Y** variable represent the newly encoded target variable data. (Line 14) We need to do this step because it is preparing the data for the next step, which is splitting into training and testing sets.

Now, we can finally split the dataset into a training and testing set to properly test the algorithms accuracy with the **train\_test\_split()** function from the **sklearn** package. (Line 16) This function will take in the **X** and **Y** variables we just defined, the **test\_size** parameter which I chose, and the **random\_state** parameter. The **test\_size** parameter represents the percentage of data that will be used for testing. For example, if it is set to .5 then half of the data is testing whilst the other half is training. The **random\_state** parameter means that the same random seed will be used every time the code is run, which is important because it ensures that the same split is generated each time. I chose a random seed of 1 to match Weka’s parameters. This returns four variables, **X\_train**, **X\_test**, **Y\_train**, **Y\_test**. These variables are extremely important in assessing the performance of the decision tree algorithm. **X\_train** and **X\_test** are both subsets of **X**, whilst the

former is used to train the model and the latter is used to assess how well it performed. Similarly, **X\_train** and **Y\_test** are both subsets of **Y** and are used to train/test the algorithm.

Once this is done, we will create an instance of the **RandomForestClassifier** class from the **sklearn** package that takes in a few parameters. (Line 18) These include, “**n\_estimators=100**” which will be used to specify the number of trees allowed in the forest. We also set the stopping criterion to ‘**entropy**’ like before so we can measure the impurity of the data and determine which feature is best for creating a new decision tree. We must also set the **max\_depth** of the decision tree to **None**, meaning it will continue to expand until all leaves are pure. The **random\_state** is set to 1, which represents its reproducibility. Next, we take our classifier object and train it based on the training data **X\_train** and **Y\_train** with the **fit()** method. (Line 19)

Finally, we can start to predict the class labels of the test data in **X\_test** by using the **random\_forest\_classifier** we previously created. This is represented as **y\_prediction**. (Line 21) The accuracy of the predictions is calculated by comparing **y\_prediction**, which is the predicted labels, with **Y\_test**, which is the real labels. (Line 22) The **confusion\_matrix** demonstrates the number of true positives, false positives, true negatives, and false negatives of the real labels and predicted labels. (Line 23) Finally, we print these results to analyze them.

Once this is completed, we can calculate the 10-fold cross-validation of the dataset **X** and the **target\_variable** with the help of the **cross\_val\_score** from the **sklearn** package. (Line 27) The four parameters are the classifier (**random\_forest\_classifier**), the entire dataset (**X**), the encoded variable (**Y**), and the number of folds to use (**cv**). Finally, we find the average of all the accuracies on all 10 folds and print the results.

### Source Code

```
pythonProject > Random_forests > forest.py
Project load_forest_data.py <-- encoders.py <-- forest.py <-- load_tree_data.py
1  """Make predictions and 10-fold accuracy"""
2  from sklearn.ensemble import RandomForestClassifier
3  from sklearn.model_selection import train_test_split
4  from sklearn.preprocessing import LabelEncoder
5  from sklearn.metrics import accuracy_score, confusion_matrix
6  from sklearn.model_selection import cross_val_score
7  from Random_forests.load_forest_data import data
8
9  target_variable = 'variety'
10 encode_variables = LabelEncoder()
11 data[target_variable] = encode_variables.fit_transform(data[target_variable])
12
13 X = data.drop(target_variable, axis=1)
14 Y = data[target_variable]
15
16 X_train, X_test, Y_train, Y_test = train_test_split(X, Y, test_size=0.3, random_state=1)
17
18 random_forest_classifier = RandomForestClassifier(n_estimators=100, criterion='entropy', max_depth=None, random_state=1)
19 random_forest_classifier.fit(X_train, Y_train)
20
21 Y_prediction = random_forest_classifier.predict(X_test)
22 accuracy = accuracy_score(Y_test, Y_prediction)
23 confusion_matrix = confusion_matrix(Y_test, Y_prediction)
24 print("Accuracy:", accuracy)
25 print("Confusion matrix:\n", confusion_matrix)
26
27 scores = cross_val_score(random_forest_classifier, X, Y, cv=10)
28 print("10-fold cross-validation accuracy:", scores.mean())
29
```

Git Python Packages TODO Python Console Problems Terminal Database Changes Services

Shared indexes are downloaded for Python packages in 5 sec, 491 ms (22.6 MB) (today 12:24 PM) 29:1 LF UTF-8 4 spaces Python 3.11 master

```

" """Make predictions and 10-fold accuracy"""
from sklearn.ensemble import RandomForestClassifier
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import LabelEncoder
from sklearn.metrics import accuracy_score, confusion_matrix
from sklearn.model_selection import cross_val_score
from sklearn.ensemble import RandomForestClassifier
from sklearn.datasets import load_iris
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
sns.set()

target_variable = 'variety'
encode_variables = LabelEncoder()
data[target_variable] = encode_variables.fit_transform(data[target_variable])

X = data.drop(target_variable, axis=1)
Y = data[target_variable]

X_train, X_test, Y_train, Y_test = train_test_split(X, Y, test_size=0.3, random_state=1)

random_forest_classifier = RandomForestClassifier(n_estimators=100, criterion='entropy',
max_depth=None, random_state=1)
random_forest_classifier.fit(X_train, Y_train)

Y_prediction = random_forest_classifier.predict(X_test)
accuracy = accuracy_score(Y_test, Y_prediction)
confusion_matrix = confusion_matrix(Y_test, Y_prediction)
print("Accuracy:", accuracy)
print("Confusion matrix:\n", confusion_matrix)

scores = cross_val_score(random_forest_classifier, X, Y, cv=10)
print("10-fold cross-validation accuracy:", scores.mean())

```

## User Application

To compare these two algorithms, I will use the following three popular datasets: Iris, Mushroom, and car evaluation provided by UCI. In the following, I will show the Python and Weka outputs as well as an analysis to compare the results.

[Iris.csv](#)

C4.5 Decision Tree

*Python Console*

Target variable = ‘variety’

Accuracy = 95.55%

10-fold cross validation accuracy = 95.33%

```
pythonProject > Decision_Tree > tree.py
pythonProject [S] tree.py load_forest_data.py encoders.py forest.py load_tree_data.py
Current File ▾ Git: ✓ ✓ ✓ ✓ ✓ ✓ ✓ Database ...
Project Commit Pull Requests Full Requests ... Database ...
pythonProject [S] datasets Decision_Tree ...
tree.x Python 3.11.2 (v3.11.2:878ead1ac1, Feb 7 2023, 10:02:41) [Clang 13.0.0 (clang-1300.0.29.30)]
sepal.length  sepal.width  petal.length  petal.width  variety
0           5.1          3.5          1.4          0.2   Setosa
1           4.9          3.0          1.4          0.2   Setosa
2           4.7          3.2          1.3          0.2   Setosa
3           4.6          3.1          1.5          0.2   Setosa
4           5.0          3.6          1.4          0.2   Setosa
..           ...
145          6.7          3.0          5.2          2.3  Virginica
146          6.3          2.5          5.0          1.9  Virginica
147          6.5          3.0          5.2          2.0  Virginica
148          6.2          3.4          5.4          2.3  Virginica
149          5.9          3.0          5.1          1.8  Virginica
[150 rows x 5 columns]
Accuracy: 0.9555555555555555
Confusion matrix:
[[14  0  0]
 [ 0 17  1]
 [ 0  1 12]]
10-fold cross-validation accuracy: 0.9533333333333334

In [3]:
```

Weka

Target variable = ‘variety’

Accuracy = 96%

**Weka Classifier Tree Visualizer: 20:06:26 - trees.J48 (iris)**

Tree View

```

graph TD
    Root((petalwidth)) --<= 0.6--> IrisSetosa[Iris-setosa (50.0)]
    Root --> PetalWidth1((petalwidth))
    PetalWidth1 --<= 1.7--> PetalLength1((petallength))
    PetalWidth1 --> PetalWidth2((petalwidth))
    PetalLength1 --<= 4.9--> IrisVersicolor1[Iris-versicolor (48.0/1.0)]
    PetalLength1 --> PetalWidth3((petalwidth))
    PetalWidth3 --<= 1.5--> IrisVirginica1[Iris-virginica (3.0)]
    PetalWidth3 --> IrisVersicolor2[Iris-versicolor (3.0/1.0)]
    PetalWidth2 --> PetalWidth4((petalwidth))
    PetalWidth4 --> IrisVirginica2[Iris-virginica (46.0/1.0)]
  
```

**Classifier**  
 J48 - C 0.25 - M 2

**Test options**  
 Use training set  
 Supplied test set   
 Cross-validation Folds 10  
 Percentage split % 3

**(Nom) class**

**Result list (right-click for options)**  
20:06:26 - trees.J48

**Classifier output**

```

Test mode: 10-fold cross-validation
== Classifier model (full training set) ==
J48 pruned tree
-----
petalwidth <= 0.6: Iris-setosa (50.0)
petalwidth > 0.6
|   petalwidth <= 1.7
|   |   petallength <= 4.9: Iris-versicolor (48.0/1.0)
|   |   |   petalwidth <= 1.5: Iris-virginica (3.0)
|   |   |   |   petalwidth > 1.5: Iris-versicolor (3.0/1.0)
|   |   petalwidth > 1.7: Iris-virginica (46.0/1.0)

Number of Leaves : 5
Size of the tree : 9

Time taken to build model: 0 seconds
== Stratified cross-validation ==
== Summary ==
Correctly Classified Instances      144          96        %
Incorrectly Classified Instances     6           4        %
Kappa statistic                     0.94
Mean absolute error                 0.035
Root mean squared error             0.1586
Relative absolute error              7.8705 %
Root relative squared error        33.6353 %
Total Number of Instances          150

== Detailed Accuracy By Class ==
      TP Rate FP Rate Precision Recall  F-Measure MCC ROC Area PRC Area Class
0    0.989  0.000  1.000  0.988  0.985  0.998  0.987  Iris-setosa
0    0.948  0.030  0.940  0.948  0.948  0.910  0.952  0.888  Iris-versicolor
0    0.968  0.030  0.941  0.968  0.958  0.925  0.961  0.985  Iris-virginica
Weighted Avg.  0.960  0.020  0.960  0.960  0.960  0.940  0.968  0.924

== Confusion Matrix ==
a b c  <-- classified as
49 1 0 | a = Iris-setosa
0 47 3 | b = Iris-versicolor
0 2 48 | c = Iris-virginica
  
```

**Status**  
OK

## Random Forest

### Python Console

Target variable = ‘variety’

Accuracy = 95.55%

10-fold cross validation accuracy = 96.66%

The screenshot shows a Jupyter Notebook interface with the following details:

- Project:** pythonProject > Random\_forests > forest.py
- Code:** A snippet of Python code for a Random Forest classifier. It includes importing pandas, reading a CSV file, splitting the data into training and testing sets, fitting a RandomForestClassifier, and calculating accuracy and a confusion matrix.
- Output:** The output shows the first 150 rows of the dataset, followed by the calculated accuracy (0.9555555555555556) and a 3x3 confusion matrix:

|    |    |    |
|----|----|----|
| 14 | 0  | 0  |
| 0  | 17 | 1  |
| 0  | 1  | 12 |

- Environment:** Python 3.11.2 (v3.11.2:878ead1ac1, Feb 7 2023, 10:02:41) [Clang 13.0.0 (clang-1300.0.29.30)]
- Variables:** A sidebar on the right lists variables used in the code, such as RandomForestClassifier, X, Y, and accuracy.

## Weka

Target variable = ‘variety’

Accuracy = 95.33%

```

== Run information ==
Scheme:      weka.classifiers.trees.RandomForest -P 100 -I 100 -num-slots 1 -K 0 -M 1.0 -V 0.001 -S 1
Relation:    iris
Instances:   150
Attributes:  5
              sepallength
              sepalwidth
              petallength
              petalwidth
              class
Test mode:   10-fold cross-validation

== Classifier model (full training set) ==
RandomForest
Bagging with 100 iterations and base learner
weka.classifiers.trees.RandomTree -K 0 -M 1.0 -V 0.001 -S 1 -do-not-check-capabilities
Time taken to build model: 0.01 seconds

== Stratified cross-validation ==
== Summary ==
Correctly Classified Instances      143          95.3333 %
Incorrectly Classified Instances     7           4.6667 %
Kappa statistic                   0.93
Mean absolute error               0.0408
Root mean squared error           0.162
Relative absolute error            9.18  %
Root relative squared error       34.3575 %
Total Number of Instances         150

== Detailed Accuracy By Class ==
      TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
      1.000    0.000    1.000     1.000    1.000    1.000    1.000    1.000    Iris-setosa
      0.940    0.040    0.922     0.940    0.931    0.896    0.991    0.984    Iris-versicolor
      0.920    0.030    0.939     0.920    0.929    0.895    0.991    0.982    Iris-virginica
Weighted Avg.                     0.953    0.023    0.953     0.953    0.953    0.930    0.994    0.989

== Confusion Matrix ==
      a   b   c   <-- classified as
  50   0   0   |   a = Iris-setosa
  0   47  3   |   b = Iris-versicolor
  0   4   46  |   c = Iris-virginica

```

## Analysis

As we see from the Iris dataset results, the Weka tree that is build by C4.5 algorithm chose ‘pedal\_width’ as the best target variable to make predictions for the ‘variety’ column. Furthermore, in the Weka tree the confusion matrix is reflected in the ‘variety’ column as Weka gets less accurate. Weka’s Random Forest result show a lower accuracy in correctly predicted instances than in C4.5 by about 1.33%.

In my python console, although the 10-fold accuracies are similar, the RandomForest algorithm produced a slightly higher result. The accuracy can vary based off parameters, datasets, or other factors which is why there may be a slight difference. We conclude that both algorithms were able to accurately predict the majority of the instances in ‘variety’.

[Mushroom.csv](#)

Decision Tree

[Python Console](#)

Target variable = ‘habitat’

Accuracy = 65.13%

10-fold cross validation accuracy = 51.45%

pythonProject > Decision\_Tree > tree.py

Project Commit Pull Requests Bookmarks Structure

load\_tree\_data.py tree.py

X = data[[opt.target\_variable, axis=1]]  
Y = data[[target\_variable]]

forest > tree

/usr/local/bin/python3.11 /Applications/PyCharm.app/Contents/plugins/python/helpers/pydev/pydev

```
import sys; print('Python %s on %s' % (sys.version, sys.platform))
sys.path.append(['/Users/ambersautner/Desktop/Data Mining/pythonProject'])

Python 3.11.2 (v3.11.2:878ead1c1, Feb 7 2023, 10:02:41) [Clang 13.0.0 (clang-1300.0.29.30)]
class cap-shape cap-surface ... spore-print-color population habitat
+ 0   p      x      s ...      k      s      u
  1   e      x      s ...      n      n      g
  2   e      b      s ...      n      n      m
  3   p      x      y ...      k      s      u
  4   e      x      s ...      n      a      g
...
8119  e      k      s ...      b      c      l
8120  e      x      s ...      b      v      l
8121  e      f      s ...      b      c      l
8122  p      k      y ...      w      v      l
8123  e      x      s ...      o      c      l

[8124 rows x 23 columns]
Accuracy: 0.6513535684987695
Confusion matrix:
In [3]:
```

DecisionTreeClassifier = ABCMeta <class 'DecisionTreeClassifier'>
X = DataFrame: (8124, 22) View as DataFrame
X\_test = DataFrame: (2438, 21) View as DataFrame
X\_train = DataFrame: (5686, 21) View as DataFrame
Y = Series: (8124,) (0, 5) (1, 2, ... View as Series
Y\_prediction = ndarray: (2438,) [1 0 ... View as Array
Y\_test = Series: (2438,) (1392, 1) ... View as Series
Y\_train = Series: (5686,) (6848, 2) ... View as Series
accuracy = float64: () 0.6513535684987695
best\_classifier = DecisionTreeClassifier
cp\_alpha = float64: () 0.38347338179157453
cp\_alphas = ndarray: (659,) [0.00 ... View as Array
classifier = DecisionTreeClassifier DecisionTreeClassifier
column = str: 'habitat'
columns\_to\_encode = list: (23) ['class', 'cap-surface', ... View as List
confusion\_matrix = ndarray: (7, 7) [[... View as Array
data = DataFrame: (8124, 23) ... View as DataFrame
dec\_tree\_classifier = DecisionTreeClassifier DecisionTreeClassifier
encode\_variables = LabelEncoder()
highest\_score = float64: () 0.6513535684987695
scores = ndarray: (10,) [0.63345633 ... View as Array
target\_variable = str: 'habitat'
Special Variables

The screenshot shows a Jupyter Notebook interface with several open files: `load_tree_data.py`, `tree.py`, and `forest`. The `forest` file contains code for a decision tree classifier. The code includes importing libraries, loading data, defining a `DecisionTreeClassifier`, fitting it to the training data, and calculating accuracy. A confusion matrix is also displayed.

```
pythonProject Decision_Tree tree.py
load_tree_data.py tree.py
X = data[[target_variable, axis=1]
Y = data[target_variable]

DecisionTreeClassifier = ABCMeta <class 'DecisionTreeClassifier'>
X = DataFrame: (8124, 22) View as DataFrame
X_train = DataFrame: (5686, 22) View as DataFrame
Y = Series: (8124,) (0, 5) (1, 1) (2, ... View as Series
Y_prediction = ndarray: (2438,) [1 0 ... View as Array
Y_test = Series: (2438,) (1392, 1) ... View as Series
Y_train = Series: (5686,) (6848, 2) ... View as Series
accuracy = float64: () 0.6513535684987695
best_classifier = DecisionTreeClassifier DecisionTreeClassifier
cp_alpha = float64: () 0.38347338179157453
cp_alphas = ndarray: (659,) [0.00 ... View as Array
classifier = DecisionTreeClassifier DecisionTreeClassifier
column = str: 'habitat'
columns_to_encode = list: 23 ['class', 'cap-s ... View as List
confusion_matrix = ndarray: (7, 7) [[... View as Array
data = DataFrame: (8124, 23) ... View as DataFrame
dec_tree_classifier = DecisionTreeClassifier DecisionTreeClassifier
encode_variables = LabelEncoder LabelEncoder()
highest_score = float64: () 0.6513535684987695
scores = ndarray: (10,) [0.6334563 ... View as Array
target_variable = str: 'habitat'
Special Variables
```

Project Commit Pull Requests Bookmarks Structure Python Packages TODO Python Console Problems Terminal Database Changes Services

Shared indexes are downloaded for Python packages in 5 sec, 491 ms (22.6 MB) (today 12:24 PM)

Weka

Accuracy = 61.96%

Preprocess Classify Cluster Associate Select attributes Visualize

Classifier Choose **J48 -C 0.25 -M 2**

Test options

- Use training set
- Supplied test set
- Cross-validation Folds: **10**
- Percentage split %: **66**
- More options...

(Nom) habitat

Start Stop

Result list (right-click for options)

```

20:08:54 - trees.RandomForest
20:16:11 - trees.RandomForest
20:16:36 - trees.RandomForest
20:16:45 - trees.RandomForest
20:18:30 - trees.RandomForest
20:23:33 - trees.J48
20:25:02 - trees.J48

```

Classifier output

```

==== Run information ====
Scheme: weka.classifiers.trees.J48 -C 0.25 -M 2
Relation: mushrooms
Instances: 8124
Attributes: 23
class
odor
cap-shape
cap-surface
cap-color
bruises
gill-attachment
gill-spacing
gill-size
gill-color
stalk-shape
stalk-root
stalk-surface-above-ring
stalk-surface-below-ring
stalk-color-above-ring
stalk-color-below-ring
veil-type
veil-color
ring-number
ring-type
spore-print-color
population
habitat
Test mode: 10-fold cross-validation
==== Classifier model (full training set) ====
J48 pruned tree

```

```

population = s
|   class = p
|   |   bruises = t; u (372.0/136.0)
|   |   bruises = f; d (96.0)
|   |   class = e; g (886.0/176.0)
|   population = n; g (400.0/128.0)
population = v; g (384.0)
population = v.
|   bruises = t
|   |   class = g (344.0/172.0)
|   |   class = e; p (16.0)
|   |   stalk-shape = t; d (960.0)
|   |   bruises = t
|   |   |   spore-print-color = k
|   |   |   |   class = p; d (48.0)
|   |   |   |   |   cap-surface = s; l (24.0)
|   |   |   |   |   cap-surface = y; u (8.0)
|   |   |   |   |   cap-surface = f; u (24.0)
|   |   |   |   |   cap-surface = g; d (8.0)
|   |   |   |   |   spore-print-color = u; d (8.0)

```

Status OK

Log  x 0

Preprocess Classify Cluster Associate Select attributes Visualize

Classifier Choose J48 - C 0.25 - M 2

Test options
 Use training set
 Supplied test set Set...
 Cross-validation Folds 10
 Percentage split % 66
 More options...

(Nom) habitat
 Start Stop

Result list (right-click for options)
 20:08:54 - trees.RandomForest
 20:16:11 - trees.RandomForest
 20:16:36 - trees.RandomForest
 20:16:45 - trees.RandomForest
 20:18:30 - trees.RandomForest
 20:23:33 - trees.J48
 20:25:02 - trees.J48

Time taken to build model: 0.84 seconds

```
== Stratified cross-validation ==
== Summary ==
Correctly Classified Instances      5034           61.9645 %
Incorrectly Classified Instances   3960           38.0355 %
Kappa statistic                      0.4921
Kob Relative Info Score            65.0638 %
Kob Information Score              12023.8572 bits   1.48 bits/instance
Class complexity @ order 0          18480.8926 bits   2.2748 bits/instance
Class complexity @ scheme           6589.6266 bits   0.8111 bits/instance
Complexity Improvement @ (SF)       11890.472 bits   1.4636 bits/instance
Mean absolute error                  0.0987
Root mean squared error             0.2233
Relative absolute error              46.2973 %
Root relative squared error         68.4233 %
Total Number of Instances          8124
```

== Detailed Accuracy By Class ==

|               | TP    | Rate  | FP    | Rate  | Precision | Recall | F-Measure | MCC   | ROC Area | PRC Area | Class |
|---------------|-------|-------|-------|-------|-----------|--------|-----------|-------|----------|----------|-------|
| 0             | 0.465 | 0.018 | 0.548 | 0.465 | 0.503     | 0.483  | 0.492     | 0.676 | 0.982    | 0.676    | u     |
| 0.686         | 0.168 | 0.009 | 0.640 | 0.168 | 0.365     | 0.168  | 0.333     | 0.492 | 0.982    | 0.492    | g     |
| 0.277         | 0.020 | 0.346 | 0.277 | 0.346 | 0.308     | 0.287  | 0.287     | 0.972 | 0.371    | 0.371    | s     |
| 0.743         | 0.123 | 0.793 | 0.743 | 0.793 | 0.767     | 0.628  | 0.925     | 0.987 | 0.987    | 0.987    | d     |
| 0.333         | 0.135 | 0.288 | 0.333 | 0.288 | 0.309     | 0.187  | 0.832     | 0.356 | 0.832    | 0.356    | p     |
| 1.000         | 0.000 | 1.000 | 1.000 | 1.000 | 1.000     | 1.000  | 1.000     | 1.000 | 1.000    | 1.000    | w     |
| 0.490         | 0.062 | 0.473 | 0.490 | 0.473 | 0.481     | 0.421  | 0.936     | 0.634 | 0.936    | 0.634    | l     |
| Weighted Avg. | 0.620 | 0.189 | 0.629 | 0.620 | 0.623     | 0.512  | 0.922     | 0.759 |          |          |       |

== Confusion Matrix ==

|     | a    | b   | c    | d   | e   | f   | g | --- classified as |
|-----|------|-----|------|-----|-----|-----|---|-------------------|
| 171 | 197  | 0   | 0    | 0   | 0   | 0   | 0 | a = u             |
| 141 | 1463 | 153 | 188  | 283 | 0   | 0   | 0 | b = g             |
| 0   | 211  | 81  | 0    | 0   | 0   | 0   | 0 | c = s             |
| 0   | 168  | 0   | 2338 | 426 | 0   | 224 | 0 | d = d             |
| 0   | 221  | 0   | 311  | 381 | 0   | 231 | 0 | e = p             |
| 0   | 0    | 0   | 0    | 0   | 192 | 0   | 0 | f = w             |
| 0   | 0    | 0   | 192  | 232 | 0   | 488 | 0 | g = l             |

Status OK

Preprocess Classify Cluster Associate Select attributes Visualize

Classifier Choose J48 - C 0.25 - M 2

Test options
 Use training set
 Supplied test set Set...
 Cross-validation Folds 10
 Percentage split % 66
 More options...

(Nom) habitat
 Start Stop

Result list (right-click for options)
 20:08:54 - trees.RandomForest
 20:16:11 - trees.RandomForest
 20:16:36 - trees.RandomForest
 20:16:45 - trees.RandomForest
 20:18:30 - trees.RandomForest
 20:23:33 - trees.J48
 20:25:02 - trees.J48

Time taken to build model: 0.84 seconds

```
== Stratified cross-validation ==
== Summary ==
Correctly Classified Instances      5034           61.9645 %
Incorrectly Classified Instances   3960           38.0355 %
Kappa statistic                      0.4921
Kob Relative Info Score            65.0638 %
Kob Information Score              12023.8572 bits   1.48 bits/instance
Class complexity @ order 0          18480.8926 bits   2.2748 bits/instance
Class complexity @ scheme           6589.6266 bits   0.8111 bits/instance
Complexity Improvement @ (SF)       11890.472 bits   1.4636 bits/instance
Mean absolute error                  0.0987
Root mean squared error             0.2233
Relative absolute error              46.2973 %
Root relative squared error         68.4233 %
Total Number of Instances          8124
```

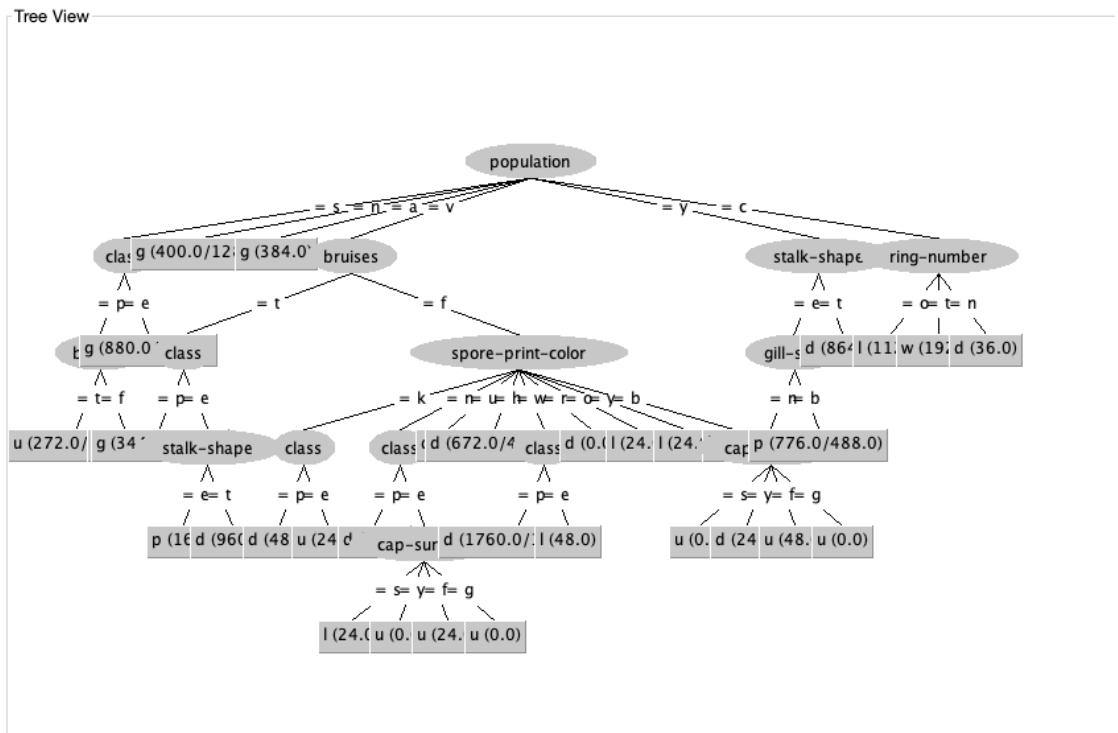
== Detailed Accuracy By Class ==

|               | TP    | Rate  | FP    | Rate  | Precision | Recall | F-Measure | MCC   | ROC Area | PRC Area | Class |
|---------------|-------|-------|-------|-------|-----------|--------|-----------|-------|----------|----------|-------|
| 0             | 0.465 | 0.018 | 0.548 | 0.465 | 0.503     | 0.483  | 0.492     | 0.676 | 0.982    | 0.676    | u     |
| 0.686         | 0.168 | 0.009 | 0.640 | 0.168 | 0.365     | 0.168  | 0.333     | 0.492 | 0.982    | 0.492    | g     |
| 0.277         | 0.020 | 0.346 | 0.277 | 0.346 | 0.308     | 0.287  | 0.287     | 0.972 | 0.371    | 0.371    | s     |
| 0.743         | 0.123 | 0.793 | 0.743 | 0.793 | 0.767     | 0.628  | 0.925     | 0.987 | 0.987    | 0.987    | d     |
| 0.333         | 0.135 | 0.288 | 0.333 | 0.288 | 0.309     | 0.187  | 0.832     | 0.356 | 0.832    | 0.356    | p     |
| 1.000         | 0.000 | 1.000 | 1.000 | 1.000 | 1.000     | 1.000  | 1.000     | 1.000 | 1.000    | 1.000    | w     |
| 0.490         | 0.062 | 0.473 | 0.490 | 0.473 | 0.481     | 0.421  | 0.936     | 0.634 | 0.936    | 0.634    | l     |
| Weighted Avg. | 0.620 | 0.189 | 0.629 | 0.620 | 0.623     | 0.512  | 0.922     | 0.759 |          |          |       |

== Confusion Matrix ==

|     | d    | e   | f    | g   | --- classified as |
|-----|------|-----|------|-----|-------------------|
| 171 | 197  | 0   | 0    | 0   | a = u             |
| 141 | 1463 | 153 | 188  | 283 | b = g             |
| 0   | 211  | 81  | 0    | 0   | c = s             |
| 0   | 168  | 0   | 2338 | 426 | d = d             |
| 0   | 221  | 0   | 311  | 381 | e = p             |
| 0   | 0    | 0   | 0    | 192 | f = w             |
| 0   | 0    | 0   | 192  | 232 | g = l             |

Status OK



## Random Forest

## *Python Console*

Accuracy = 48.85% %

**10-fold cross validation accuracy = 48.22% %**

The screenshot shows the PyCharm IDE interface with a project named "pythonProject" containing a "Decision Tree" folder. The "forest.py" file is open in the editor. The code imports necessary libraries and defines a RandomForestClassifier. It loads a dataset from a CSV file, encodes categorical variables, and splits the data into training and testing sets. The classifier is trained on the training data and its accuracy is printed. A confusion matrix is also generated.

```
target_variable = 'habitat'
columns_to_encode = ['class', 'cap-shape', 'cap-surface', 'cap-color', 'bruises', 'odor', 'gill-attachment']

import sys; print('Python %s on %s' % (sys.version, sys.platform))
sys.path.extend(['/Users/ambersautner/Desktop/Data Mining/pythonProject'])

Python 3.11.2 (v3.11.2:878ead1ac1, Feb 7 2023, 10:02:41) [Clang 13.0.0 (clang-1300.0.29.38)]
>>> class cap-shape cap-surface ... spore-print-color population habitat
+ 0   p      x      s ...           k      s      u
  1   e      x      s ...           n      n      g
  2   e      b      s ...           n      n      m
  3   p      x      y ...           k      s      u
  4   e      x      s ...           n      a      g
  ...
  ...
  ...
  8119  e      k      s ...           b      c      l
  8120  e      x      s ...           b      v      l
  8121  e      f      s ...           b      c      l
  8122  p      k      y ...           w      v      l
  8123  e      x      s ...           o      c      l

[8124 rows x 23 columns]
Accuracy: 0.4885151763740771
Confusion matrix:
In [3]:
```

Weka

Accuracy = 47.30%

```

Princess Classifier Cluster Associate Select attributes Visualize
Classifier Choose RandomForest -P 100 -I 100 -num-slots 1 -K 0 -M 1.0 -V 0.001 -S 1

Test options
 Use training set
 Supplied test set Set...
 Cross-validation Folds 10
 Percentage split % 66
More options...

(Nom) habitat
Start Stop
Result list (right-click for options)
20:08:54 - trees.RandomForest
20:16:11 - trees.RandomForest
20:16:15 - trees.RandomForest
20:16:45 - trees.RandomForest
20:18:30 - trees.RandomForest
20:23:33 - trees.J48
20:25:02 - trees.J48
20:29:02 - trees.RandomForest
20:29:02 - trees.RandomForest

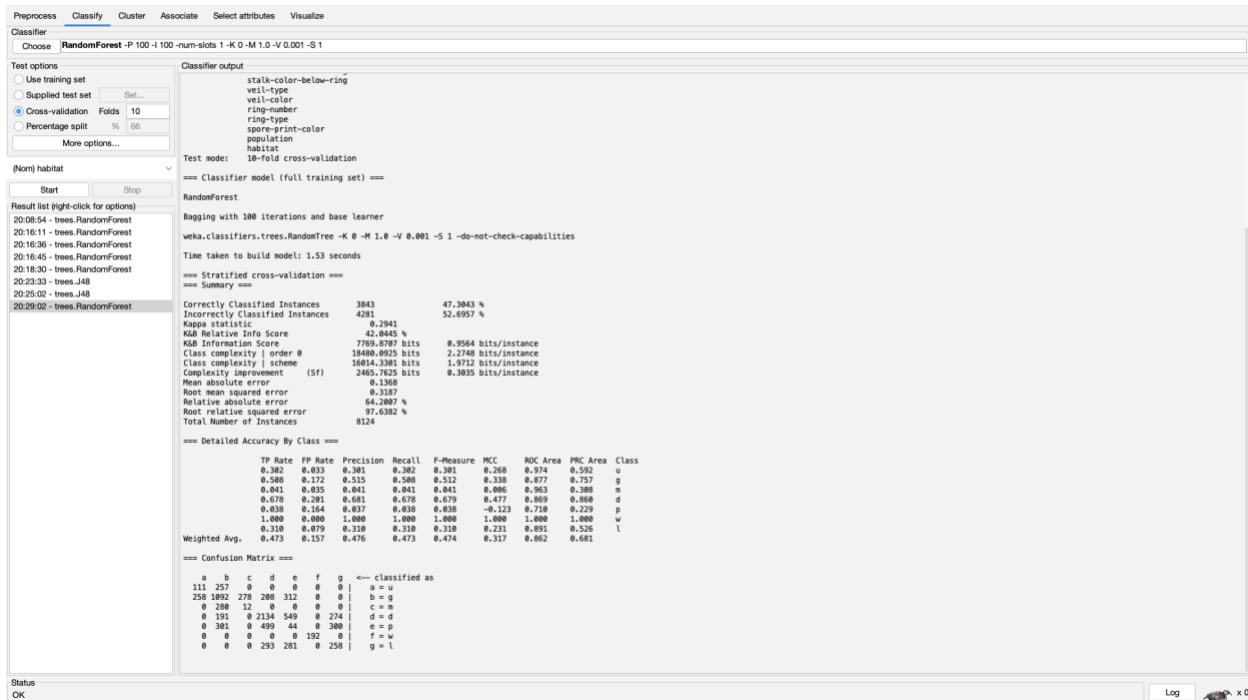
Classifier output
== Run information ==
Scheme: weka.classifiers.trees.RandomForest -P 100 -I 100 -num-slots 1 -K 0 -M 1.0 -V 0.001 -S 1
Relation: mushrooms
Instances: 8124
Attributes: 23
class
cap-shape
cap-surface
cap-color
bruises
odor
gill-attachment
gill-spacing
gill-size
gill-type
stalk-shape
stalk-root
stalk-surface-above-ring
stalk-surface-below-ring
stalk-color-above-ring
stalk-color-below-ring
veil-type
veil-color
ring-number
ring-type
spore-print-color
population
habitat
Test mode: 10-Fold cross-validation
== Classifier model (full training set) ==
RandomForest
Bagging with 100 iterations and base learner
weka.classifiers.trees.RandomTree -K 0 -M 1.0 -V 0.001 -S 1 -do-not-check-capabilities

Time taken to build model: 1.53 seconds

== Stratified cross-validation ==
== Summary ==
Correctly Classified Instances 3843 47.3845 %
Incorrectly Classified Instances 4281 52.6957 %
Kappa statistic 0.2941
Kappa relative Inv. Score 42.0445 %
NMI 0.2941
FMeasure Score 7789.0925 bits
Class complexity | order # 18480.0925 bits
Class complexity | scheme 16014.3301 bits
Complexity Implement. (St) 2485.0925 bits
Mean absolute error 0.1368
Root mean squared error 0.3187
Relative absolute error 64.2807 %
Root relative squared error 97.6302 %
Total Number of Instances 8124

== Detailed Accuracy By Class ==
TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class
Status OK
Log x0

```



## Analysis

In the Mushroom dataset results, the Weka C4.5 decision tree chose ‘population’ as the best target variable to make predictions for ‘habitat’. This decision tree is much more complicated than the Iris tree because the confusion matrix has many more features to handle. We see that Weka’s accuracy in correctly predicted instances with the C4.5 algorithm is higher than that of RandomForest by about 14.66%, which is statistically significant.

In my python console, the C4.5 algorithm had a higher accuracy for the 10-fold cross-validation method. This supports the previous analysis that shows C4.5 yields more accurate predictions compared to the RandomForest algorithm.

In the case of the RandomForest algorithm, it had a lower accuracy both in predicting the target variable and in 10-fold cross-validation. The differences between the accuracies of C4.5 and RandomForest for this dataset are quite significant, which shows that C4.5 could be a better classifier for this dataset. Out of all three dataset examples, Mushrooms is the largest and most complex, which may be the reason for the significant difference. Due to the complexity of the dataset and its many categorical features, we can conclude that there is a lower accuracy and performance of the algorithms on this dataset.

\*Please note that unlike the Iris dataset that had one categorical column, the Mushroom dataset was all categorical. I added the following code to both C4.5 and RandomForest to encode the data prior to building decision trees.

```
columns_to_encode = ['class', 'cap-shape', 'cap-surface', 'cap-color', 'bruises', 'odor', 'gill-attachment',
                     'gill-spacing', 'gill-size', 'gill-color', 'stalk-shape', 'stalk-root', 'stalk-surface-above-ring',
                     'stalk-surface-below-ring', 'stalk-color-above-ring', 'stalk-color-below-ring', 'veil-
```

```

type',
'veil-color', 'ring-number', 'ring-type', 'spore-print-color', 'population', 'habitat']

```

```

encode_variables = LabelEncoder()
for column in columns_to_encode:
    data[column] = encode_variables.fit_transform(data[column])

```

Car Evaluation.csv

C4.5 Decision Tree

Target variable = 'US'

*Python Console*

Accuracy = 90.83%

10-fold cross validation accuracy = 91.00%

```

pythonProject Decision_Tree tree.py
pythonProject [S] 10
11     columns_to_encode = ['ShelveLoc', 'Urban']

tree x
Python 3.11.2 (v3.11.2:878ead1ac1, Feb  7 2023, 10:02:41) [Clang 13.0.0 (clang-1300.0.29.30)]
10
11     columns_to_encode = ['ShelveLoc', 'Urban']

      Sales CompPrice Income Advertising ... Age Education Urban US
0       9.50        138      73          11 ... 42        17 Yes Yes
1      11.22        111      48          16 ... 65        10 Yes Yes
2      18.86        113      35          18 ... 59        12 Yes Yes
3       7.40        117     100          4 ... 55        14 Yes Yes
4       4.15        141      64          3 ... 38        13 Yes No
... ...
395    12.57        138     188          17 ... 33        14 Yes Yes
396    6.14         139      23          3 ... 55        11 No Yes
397    7.41         162      26          12 ... 46        18 Yes Yes
398    5.94         108      79          7 ... 50        12 Yes Yes
399    9.71        134      37          0 ... 49        16 Yes Yes

[400 rows x 11 columns]
Accuracy: 0.9083333333333333
Confusion matrix:
[[46  4]
 [ 7 63]]
10-fold cross-validation accuracy: 0.9100000000000001

In [3]:

```

Shared indexes are downloaded for Python packages in 5 sec, 491 ms (22.6 MB) (today 12:24 PM)

1:1 LF UTF-8 4 spaces Python 3.11 master

Weka

Accuracy = 88.25%

Preprocess Classify Cluster Associate Select attributes Visualize

Classifier Choose J48-C 0.25-M 2

Test options

- Use training set
- Supplied test set Set...
- Cross-validation Folds 10
- Percentage split % 66
- More options...

(Nom) US

Start Stop

Result list (right-click for options)

```
20:08:54 - trees.RandomForest
20:16:11 - trees.RandomForest
20:16:36 - trees.RandomForest
20:16:45 - trees.RandomForest
20:18:30 - trees.RandomForest
20:23:33 - trees.J48
20:25:02 - trees.J48
20:29:02 - trees.RandomForest
20:34:15 - trees.J48
```

Classifier output

```
=====  
CapPrice  
Income  
Advertising  
Population  
Price  
ShelfLoc  
Age  
Education  
Urban  
US  
=====  
Test node: 10-fold cross-validation  
=====  
Classifier model (full training set) ====  
J48 pruned tree  
=====  
Advertising <= 0: No (144.0/19.0)  
Advertising > 0:  
| Advertising <= 6  
| | Population > 477  
| | | Age <= 29  
| | | | Education <= 15: No (3.0)  
| | | | Education > 15: Yes (3.0/1.0)  
| | | Age > 29  
| | | | Age <= 72: Yes (47.0/2.0)  
| | | | Age > 72  
| | | | | Population <= 126: Yes (4.0)  
| | | | | Population > 126: No (5.0/1.0)  
| | | Population > 477  
| | | | Population <= 499: No (5.0)  
| | | | Population > 499: Yes (2.0)  
| | | | Advertising > 6: Yes (187.0/2.0)  
Number of Leaves : 9  
Size of the tree : 17  
Time taken to build model: 0.81 seconds  
=====  
Stratified cross-validation ====  
=====  
Summary ====  
Correctly Classified Instances 353 88.25 %  
Incorrectly Classified Instances 47 11.75 %  
Kappa statistic 0.7494  
Kob Relative Info Score 65.6776  
Kob Information Score 246.5615 bits 8.4546 bits/instance  
Class distribution error 0.7352 bits 8.3985 bits/instance  
Class complexity / scheme 5549.4918 bits 13.8737 bits/instance  
Complexity improvement (Sf) -5174.0799 bits -12.9352 bits/instance  
Mean absolute error 0.1650  
Root mean square error 0.1692  
Relative absolute error 36.0571 %  
Root relative squared error 66.6965 %  
Total Number of Instances 400  
=====  
Detailed Accuracy By Class ====  
TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class
```

Status OK

Preprocess Classify Cluster Associate Select attributes Visualize

Classifier Choose J48-C 0.25-M 2

Test options

- Use training set
- Supplied test set Set...
- Cross-validation Folds 10
- Percentage split % 66
- More options...

(Nom) US

Start Stop

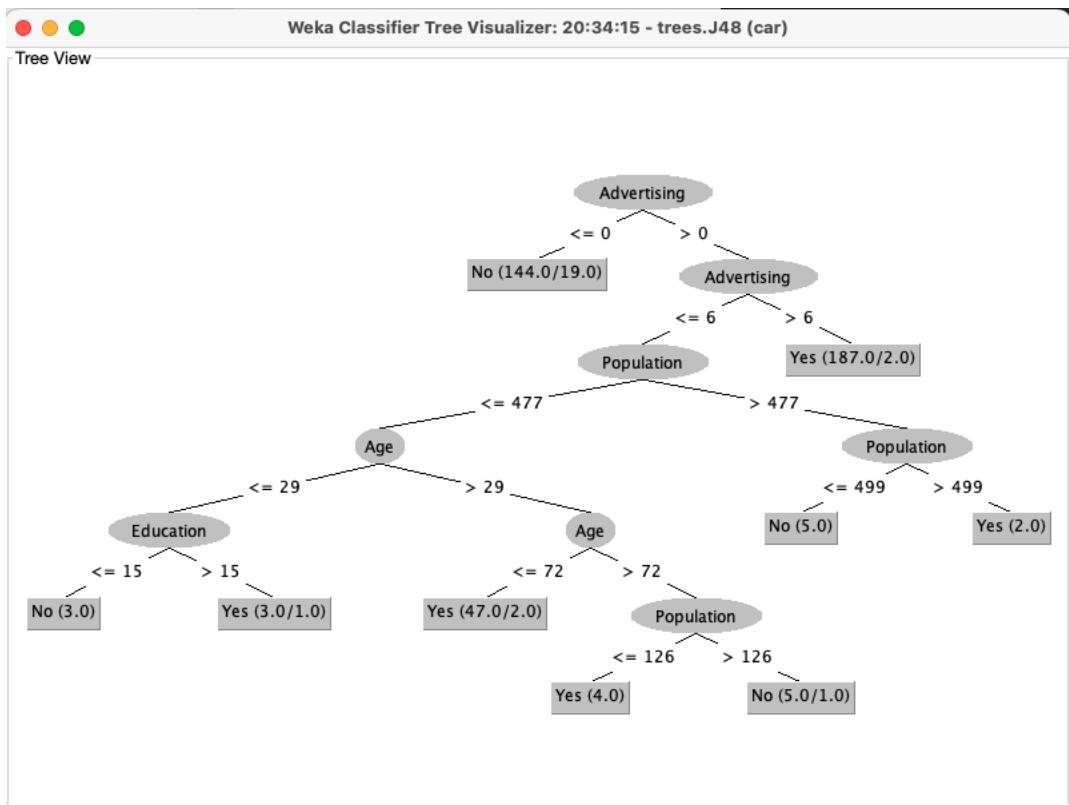
Result list (right-click for options)

```
20:08:54 - trees.RandomForest
20:16:11 - trees.RandomForest
20:16:36 - trees.RandomForest
20:16:45 - trees.RandomForest
20:18:30 - trees.RandomForest
20:23:33 - trees.J48
20:25:02 - trees.J48
20:29:02 - trees.RandomForest
20:34:15 - trees.J48
```

Classifier output

```
=====  
CapPrice  
Income  
Advertising  
Population  
Price  
ShelfLoc  
Age  
Education  
Urban  
US  
=====  
Test node: 10-fold cross-validation  
=====  
Classifier model (full training set) ====  
J48 pruned tree  
=====  
Advertising <= 0: No (144.0/19.0)  
Advertising > 0:  
| Advertising <= 6  
| | Population > 477  
| | | Age <= 29  
| | | | Education <= 15: No (3.0)  
| | | | Education > 15: Yes (3.0/1.0)  
| | | Age > 29  
| | | | Age <= 72: Yes (47.0/2.0)  
| | | | Age > 72  
| | | | | Population <= 126: Yes (4.0)  
| | | | | Population > 126: No (5.0/1.0)  
| | | Population > 477  
| | | | Population <= 499: No (5.0)  
| | | | Population > 499: Yes (2.0)  
| | | | Advertising > 6: Yes (187.0/2.0)  
Number of Leaves : 9  
Size of the tree : 17  
Time taken to build model: 0.81 seconds  
=====  
Stratified cross-validation ====  
=====  
Summary ====  
Correctly Classified Instances 353 88.25 %  
Incorrectly Classified Instances 47 11.75 %  
Kappa statistic 0.7494  
Kob Relative Info Score 65.6776  
Kob Information Score 246.5615 bits 8.4546 bits/instance  
Class distribution error 0.7352 bits 8.3985 bits/instance  
Class complexity / scheme 5549.4918 bits 13.8737 bits/instance  
Complexity improvement (Sf) -5174.0799 bits -12.9352 bits/instance  
Mean absolute error 0.1650  
Root mean square error 0.1692  
Relative absolute error 36.0571 %  
Root relative squared error 66.6965 %  
Total Number of Instances 400  
=====  
Detailed Accuracy By Class ====  
TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class  
0.880 0.113 0.934 0.880 0.986 0.752 0.899 0.930 Yes  
0.880 0.126 0.887 0.887 0.843 0.752 0.899 0.750 No  
Weighted Avg. 0.883 0.115 0.897 0.883 0.894 0.752 0.899 0.869  
=====  
Confusion Matrix ====  
a b <- classified as  
227 31 | a = Yes  
16 126 | b = No
```

Status OK



Random Forest

[Python Console](#)

Accuracy = 90.25%

10-fold cross validation accuracy = 90.00%

The screenshot shows a Jupyter Notebook environment with the following details:

- Project:** pythonProject
- File:** Random\_forests / forest.py
- Code Cells:**
  - In [3]:** Displays the output of a code cell, which includes:
    - Data frame summary: Python 3.11.2 (v3.11.2:878ead1ac1, Feb 7 2023, 10:02:41) [Clang 13.0.0 (clang-1300.0.29.30)]
    - Sample data:

|   | Sales | CompPrice | Income | Advertising | ... | Age | Education | Urban | US  |
|---|-------|-----------|--------|-------------|-----|-----|-----------|-------|-----|
| 0 | 9.50  | 138       | 73     | 11          | ... | 42  | 17        | Yes   | Yes |
| 1 | 11.22 | 111       | 48     | 16          | ... | 65  | 10        | Yes   | Yes |
| 2 | 10.86 | 113       | 35     | 18          | ... | 59  | 12        | Yes   | Yes |
| 3 | 7.40  | 117       | 100    | 4           | ... | 55  | 14        | Yes   | Yes |
| 4 | 4.15  | 141       | 64     | 3           | ... | 38  | 13        | Yes   | No  |
    - Accuracy: 0.9
    - Confusion matrix:

|         |
|---------|
| [45 5]  |
| [ 7 63] |
    - 10-fold cross-validation accuracy: 0.9025000000000001
  - Out [3]:** Shows the execution status.
- Variables:** A sidebar on the right lists variables used in the code:
  - RandomForestClassifier
  - X
  - X\_train
  - Y
  - Y\_prediction
  - Y\_test
  - Y\_train
  - accuracy
  - column
  - columns\_to\_encode
  - confusion\_matrix
  - data
  - encode\_variables
  - random\_forest\_classifier
  - scores
  - target\_variable
  - Special Variables

Weka

Accuracy = 90.75%

Classifier    Classify    Cluster    Associate    Select attributes    Visualize

Choose **RandomForest -P 100 -I 100 -num-slots 1 -K 0 -M 1.0 -V 0.001 -S 1**

**Test options**

Use training set  
 Supplied test set  Set...  
 Cross-validation Folds: 10  
 Percentage split %: 66  
[More options...](#)

(Nom) US

**Start**   **Stop**

Result list (right-click for options)

```
20:08:54 - trees.RandomForest
20:10:23 - trees.RandomForest
20:16:36 - trees.RandomForest
20:16:45 - trees.RandomForest
20:18:30 - trees.RandomForest
20:23:33 - trees.J48
20:25:02 - trees.J48
20:29:02 - trees.RandomForest
20:34:15 - trees.J48
20:35:46 - trees.RandomForest
```

Test mode: 10-fold cross-validation

== Classifier model (full training set) ==

```
RandomForest

Bagging with 100 iterations and base learner

weka.classifiers.trees.RandomTree -K 0 -M 1.0 -V 0.001 -S 1 -do-not-check-capabilities
```

Time taken to build model: 0.85 seconds

== Stratified cross-validation ==

== Summary ==

| Correctly Classified Instances   | 363           | 99.75 %              |
|----------------------------------|---------------|----------------------|
| Incorrectly Classified Instances | 37            | 9.25 %               |
| Kappa statistic                  | 0.7983        |                      |
| Kid KB Predictor Info Score      | 64.4921 %     |                      |
| Kid Information Score            | 242.1189 bits | 0.6053 bits/instance |
| Class complexity   Jester Scheme | 375.4119 bits | 0.9385 bits/instance |
| Class complexity   Random Scheme | 182.1189 bits | 0.4142 bits/instance |
| Complexity Improvement (St)      | 299.7374 bits | 0.5243 bits/instance |
| Mean absolute error              | 0.1754        |                      |
| Root mean squared error          | 0.2998        |                      |
| Relative absolute error          | 38.2637 %     |                      |
| Root relative squared error      | 60.5664 %     |                      |
| Total Number of Instances        | 400           |                      |

== Detailed Accuracy By Class ==

|               | TP Rate | FP Rate | Precision | Recall | F-Measure | RCC   | RCC Area | PMC Area | Class |
|---------------|---------|---------|-----------|--------|-----------|-------|----------|----------|-------|
| 0             | 0.926   | 0.137   | 0.938     | 0.926  | 0.928     | 0.798 | 0.938    | 0.965    | Yes   |
| 1             | 0.873   | 0.074   | 0.867     | 0.873  | 0.870     | 0.798 | 0.938    | 0.874    | No    |
| Weighted Avg. | 0.988   | 0.188   | 0.988     | 0.988  | 0.988     | 0.798 | 0.938    | 0.932    |       |

== Confusion Matrix ==

|          |     | a   b   | classified as |
|----------|-----|---------|---------------|
| a        | b   | a = Yes | b = No        |
| 239   19 | 19  | a = Yes |               |
| 18   124 | 124 | b = No  |               |

Status

OK

Log

## Analysis

In Weka, we note that the RandomForest classifier yielded a 2.5 % higher accuracy in predicting the target variable than the C4.5 algorithm. The Weka decision tree chose ‘Advertising’ as the best target variable to make predictions for ‘US’. However, my Python output shows the C4.5

algorithm had a stronger accuracy for 10-fold cross validation by 1%. These differences are slight and demonstrate how similar in accuracy the algorithms are. Overall, both algorithms were able to accurately predict most of the instances in the 'US' column, demonstrating their effectiveness for this dataset.

\*Please note that unlike the Iris dataset that had one categorical column, the Car Evaluation dataset has a mixture of nominal and categorical. I added the following code to both C4.5 and RandomForest to encode the data prior to building decision trees.

```
columns_to_encode = ['ShelveLoc', 'Urban']

encode_variables = LabelEncoder()
for column in columns_to_encode:
    data[column] = encode_variables.fit_transform(data[column])
```

## Data

Below are links to the 3 different datasets used in the examples.

Iris.csv

<https://archive.ics.uci.edu/ml/datasets/iris>

```
5.1,3.5,1.4,0.2,Iris-setosa
4.9,3.0,1.4,0.2,Iris-setosa
4.7,3.2,1.3,0.2,Iris-setosa
4.6,3.1,1.5,0.2,Iris-setosa
5.0,3.6,1.4,0.2,Iris-setosa
5.4,3.9,1.7,0.4,Iris-setosa
4.6,3.4,1.4,0.3,Iris-setosa
5.0,3.4,1.5,0.2,Iris-setosa
4.4,2.9,1.4,0.2,Iris-setosa
4.9,3.1,1.5,0.1,Iris-setosa
5.4,3.7,1.5,0.2,Iris-setosa
4.8,3.4,1.6,0.2,Iris-setosa
4.8,3.0,1.4,0.1,Iris-setosa
4.3,3.0,1.1,0.1,Iris-setosa
5.8,4.0,1.2,0.2,Iris-setosa
5.7,4.4,1.5,0.4,Iris-setosa
5.4,3.9,1.3,0.4,Iris-setosa
5.1,3.5,1.4,0.3,Iris-setosa
5.7,3.8,1.7,0.3,Iris-setosa
5.1,3.8,1.5,0.3,Iris-setosa
5.4,3.4,1.7,0.2,Iris-setosa
5.1,3.7,1.5,0.4,Iris-setosa
4.6,3.6,1.0,0.2,Iris-setosa
5.1,3.3,1.7,0.5,Iris-setosa
4.8,3.4,1.9,0.2,Iris-setosa
5.0,3.0,1.6,0.2,Iris-setosa
5.0,3.4,1.6,0.4,Iris-setosa
5.2,3.5,1.5,0.2,Iris-setosa
```

5.2,3.4,1.4,0.2,Iris-setosa  
4.7,3.2,1.6,0.2,Iris-setosa  
4.8,3.1,1.6,0.2,Iris-setosa  
5.4,3.4,1.5,0.4,Iris-setosa  
5.2,4.1,1.5,0.1,Iris-setosa  
5.5,4.2,1.4,0.2,Iris-setosa  
4.9,3.1,1.5,0.1,Iris-setosa  
5.0,3.2,1.2,0.2,Iris-setosa  
5.5,3.5,1.3,0.2,Iris-setosa  
4.9,3.1,1.5,0.1,Iris-setosa  
4.4,3.0,1.3,0.2,Iris-setosa  
5.1,3.4,1.5,0.2,Iris-setosa  
5.0,3.5,1.3,0.3,Iris-setosa  
4.5,2.3,1.3,0.3,Iris-setosa  
4.4,3.2,1.3,0.2,Iris-setosa  
5.0,3.5,1.6,0.6,Iris-setosa  
5.1,3.8,1.9,0.4,Iris-setosa  
4.8,3.0,1.4,0.3,Iris-setosa  
5.1,3.8,1.6,0.2,Iris-setosa  
4.6,3.2,1.4,0.2,Iris-setosa  
5.3,3.7,1.5,0.2,Iris-setosa  
5.0,3.3,1.4,0.2,Iris-setosa  
7.0,3.2,4.7,1.4,Iris-versicolor  
6.4,3.2,4.5,1.5,Iris-versicolor  
6.9,3.1,4.9,1.5,Iris-versicolor  
5.5,2.3,4.0,1.3,Iris-versicolor  
6.5,2.8,4.6,1.5,Iris-versicolor  
5.7,2.8,4.5,1.3,Iris-versicolor  
6.3,3.3,4.7,1.6,Iris-versicolor  
4.9,2.4,3.3,1.0,Iris-versicolor  
6.6,2.9,4.6,1.3,Iris-versicolor  
5.2,2.7,3.9,1.4,Iris-versicolor  
5.0,2.0,3.5,1.0,Iris-versicolor  
5.9,3.0,4.2,1.5,Iris-versicolor  
6.0,2.2,4.0,1.0,Iris-versicolor  
6.1,2.9,4.7,1.4,Iris-versicolor  
5.6,2.9,3.6,1.3,Iris-versicolor  
6.7,3.1,4.4,1.4,Iris-versicolor  
5.6,3.0,4.5,1.5,Iris-versicolor  
5.8,2.7,4.1,1.0,Iris-versicolor  
6.2,2.2,4.5,1.5,Iris-versicolor  
5.6,2.5,3.9,1.1,Iris-versicolor  
5.9,3.2,4.8,1.8,Iris-versicolor  
6.1,2.8,4.0,1.3,Iris-versicolor  
6.3,2.5,4.9,1.5,Iris-versicolor  
6.1,2.8,4.7,1.2,Iris-versicolor

6.4,2.9,4.3,1.3,Iris-versicolor  
6.6,3.0,4.4,1.4,Iris-versicolor  
6.8,2.8,4.8,1.4,Iris-versicolor  
6.7,3.0,5.0,1.7,Iris-versicolor  
6.0,2.9,4.5,1.5,Iris-versicolor  
5.7,2.6,3.5,1.0,Iris-versicolor  
5.5,2.4,3.8,1.1,Iris-versicolor  
5.5,2.4,3.7,1.0,Iris-versicolor  
5.8,2.7,3.9,1.2,Iris-versicolor  
6.0,2.7,5.1,1.6,Iris-versicolor  
5.4,3.0,4.5,1.5,Iris-versicolor  
6.0,3.4,4.5,1.6,Iris-versicolor  
6.7,3.1,4.7,1.5,Iris-versicolor  
6.3,2.3,4.4,1.3,Iris-versicolor  
5.6,3.0,4.1,1.3,Iris-versicolor  
5.5,2.5,4.0,1.3,Iris-versicolor  
5.5,2.6,4.4,1.2,Iris-versicolor  
6.1,3.0,4.6,1.4,Iris-versicolor  
5.8,2.6,4.0,1.2,Iris-versicolor  
5.0,2.3,3.3,1.0,Iris-versicolor  
5.6,2.7,4.2,1.3,Iris-versicolor  
5.7,3.0,4.2,1.2,Iris-versicolor  
5.7,2.9,4.2,1.3,Iris-versicolor  
6.2,2.9,4.3,1.3,Iris-versicolor  
5.1,2.5,3.0,1.1,Iris-versicolor  
5.7,2.8,4.1,1.3,Iris-versicolor  
6.3,3.3,6.0,2.5,Iris-virginica  
5.8,2.7,5.1,1.9,Iris-virginica  
7.1,3.0,5.9,2.1,Iris-virginica  
6.3,2.9,5.6,1.8,Iris-virginica  
6.5,3.0,5.8,2.2,Iris-virginica  
7.6,3.0,6.6,2.1,Iris-virginica  
4.9,2.5,4.5,1.7,Iris-virginica  
7.3,2.9,6.3,1.8,Iris-virginica  
6.7,2.5,5.8,1.8,Iris-virginica  
7.2,3.6,6.1,2.5,Iris-virginica  
6.5,3.2,5.1,2.0,Iris-virginica  
6.4,2.7,5.3,1.9,Iris-virginica  
6.8,3.0,5.5,2.1,Iris-virginica  
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Mushroom.csv

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e,b,y,w,t,a,f,c,b,g,e,c,s,s,w,w,p,w,o,p,k,n,m  
e,x,y,w,t,a,f,c,b,w,e,c,s,s,w,w,p,w,o,p,n,s,g  
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p,x,s,n,t,p,f,c,n,p,e,e,s,s,w,w,p,w,o,p,n,s,g  
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e,b,s,w,t,l,f,c,b,n,e,c,s,s,w,w,p,w,o,p,n,s,g  
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e,x,y,w,t,a,f,c,b,k,e,c,s,s,w,w,p,w,o,p,k,n,m  
e,x,f,w,t,l,f,w,n,n,t,b,s,s,w,w,p,w,o,p,n,v,d  
e,f,s,w,t,l,f,w,n,w,t,b,s,s,w,w,p,w,o,p,n,v,d  
e,x,y,y,t,l,f,c,b,k,e,c,s,s,w,w,p,w,o,p,n,s,m  
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e,x,y,y,t,l,f,c,b,k,e,c,s,s,w,w,p,w,o,p,k,n,g  
e,f,f,g,f,n,f,w,b,h,t,e,f,f,w,w,p,w,o,e,n,a,g  
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e,b,y,w,t,a,f,c,b,w,e,c,s,s,w,w,p,w,o,p,n,s,m  
p,x,y,n,t,p,f,c,n,p,e,e,s,s,w,w,p,w,o,p,n,s,u  
e,f,y,n,t,l,f,c,b,w,e,r,s,y,w,w,p,w,o,p,k,s,g  
e,x,s,w,t,l,f,c,b,n,e,c,s,s,w,w,p,w,o,p,n,n,m  
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e,f,y,n,t,a,f,c,b,n,e,r,s,y,w,w,p,w,o,p,n,y,p  
e,b,s,w,t,a,f,c,b,k,e,c,s,s,w,w,p,w,o,p,n,n,m

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e,b,s,y,t,l,f,c,b,g,e,c,s,s,w,w,p,w,o,p,n,s,g  
e,b,s,y,t,l,f,c,b,w,e,c,s,s,w,w,p,w,o,p,k,s,g  
e,f,s,w,t,l,f,w,n,n,t,b,s,s,w,w,p,w,o,p,n,v,d  
e,b,s,w,t,a,f,c,b,w,e,c,s,s,w,w,p,w,o,p,k,n,m  
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e,f,y,y,t,a,f,c,b,p,e,r,s,y,w,w,p,w,o,p,k,y,g  
e,x,y,w,t,l,f,c,b,w,e,c,s,s,w,w,p,w,o,p,n,s,m  
e,s,f,n,f,n,f,c,n,p,e,e,s,s,w,w,p,w,o,p,n,y,u  
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p,x,y,n,t,p,f,c,n,w,e,e,s,s,w,w,p,w,o,p,k,s,g  
p,x,y,w,t,p,f,c,n,w,e,e,s,s,w,w,p,w,o,p,k,v,u  
e,x,s,y,t,l,f,c,b,g,e,c,s,s,w,w,p,w,o,p,n,s,g  
e,f,f,w,f,n,f,w,b,k,t,e,s,s,w,w,p,w,o,e,n,s,g  
e,b,s,y,t,a,f,c,b,g,e,c,s,s,w,w,p,w,o,p,k,n,g

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p,x,s,n,t,p,f,c,n,w,e,e,s,s,w,w,p,w,o,p,n,v,u  
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e,b,y,y,t,a,f,c,b,w,e,c,s,s,w,w,p,w,o,p,n,n,m  
e,x,y,n,t,a,f,c,b,n,e,r,s,y,w,w,p,w,o,p,k,y,p  
e,b,s,w,t,l,f,c,b,g,e,c,s,s,w,w,p,w,o,p,n,n,g  
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e,f,f,g,f,n,f,w,b,k,t,e,s,f,w,w,p,w,o,e,k,a,g  
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e,x,f,g,f,n,f,c,n,k,e,e,s,s,w,w,p,w,o,p,k,v,u  
e,b,s,y,t,a,f,c,b,n,e,c,s,s,w,w,p,w,o,p,k,s,m  
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e,x,f,g,f,n,f,c,n,k,e,e,s,s,w,w,p,w,o,p,n,y,u  
e,b,s,w,t,a,f,c,b,n,e,c,s,s,w,w,p,w,o,p,n,n,m  
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p,x,f,g,f,f,f,c,b,p,e,b,k,k,b,p,p,w,o,l,h,y,p  
p,x,y,y,f,f,f,c,b,h,e,b,k,k,n,b,p,w,o,l,h,v,d  
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p,f,y,g,f,f,f,c,b,g,e,b,k,k,p,n,p,w,o,l,h,v,d  
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p,x,s,w,t,f,f,c,b,p,t,b,f,f,w,w,p,w,o,p,h,v,g  
e,k,y,n,t,n,f,c,b,w,e,?,s,s,w,w,p,w,t,e,w,c,w  
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e,f,f,g,t,n,f,c,b,u,t,b,s,s,p,p,w,o,p,n,v,d  
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p,b,y,w,t,n,f,c,b,w,e,b,s,s,w,w,p,w,t,p,r,v,m  
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p,x,y,n,f,f,f,c,n,b,t,?,k,s,p,w,p,w,o,e,w,v,d  
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e,f,y,p,t,n,f,c,b,e,e,?,s,s,e,e,p,w,t,e,w,c,w  
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p,f,s,b,t,f,f,c,b,w,t,b,f,s,w,w,p,w,o,p,h,s,u  
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p,f,y,y,f,f,c,b,h,e,b,k,k,n,n,p,w,o,l,h,y,p  
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p,k,f,y,f,n,f,c,n,w,e,?,k,y,w,n,p,w,o,e,w,v,d  
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p,x,y,y,f,f,f,c,b,g,e,b,k,k,b,p,w,o,l,h,v,p  
p,x,f,y,f,f,f,c,b,p,e,b,k,k,p,p,w,o,l,h,v,g  
e,k,y,b,t,n,f,c,b,e,e,?,s,s,w,e,p,w,t,e,w,c,w  
p,f,y,y,f,f,f,c,b,p,e,b,k,k,n,n,p,w,o,l,h,y,d  
p,x,s,w,t,f,f,c,b,p,t,b,s,s,w,w,p,w,o,p,h,s,u  
p,x,y,n,f,s,f,c,n,b,t,?,k,k,w,w,p,w,o,e,w,v,p  
p,x,y,n,f,y,f,c,n,b,t,?,s,k,w,w,p,w,o,e,w,v,d  
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p,f,g,w,t,n,f,w,n,w,e,b,s,s,w,w,p,w,o,p,w,c,l  
p,x,s,g,t,f,f,c,b,p,t,b,f,s,w,w,p,w,o,p,h,v,u  
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p,x,y,g,f,f,f,c,b,p,e,b,k,k,p,b,p,w,o,l,h,y,g  
p,f,y,y,f,f,f,c,b,g,e,b,k,k,b,p,p,w,o,l,h,v,d  
p,f,y,y,f,f,f,c,b,p,e,b,k,k,b,p,p,w,o,l,h,y,p  
e,f,y,p,t,n,f,c,b,w,e,?,s,s,w,e,p,w,t,e,w,c,w  
p,x,s,b,t,f,f,c,b,w,t,b,f,s,w,w,p,w,o,p,h,v,g  
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p,f,s,w,t,f,f,c,b,w,t,b,s,s,w,w,p,w,o,p,h,v,g  
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p,f,f,y,f,f,f,c,b,h,e,b,k,k,n,n,p,w,o,l,h,v,d  
p,f,f,n,f,n,f,c,n,w,e,?,k,y,w,n,p,w,o,e,w,v,d  
e,k,s,b,t,n,f,c,b,w,e,?,s,s,w,w,p,w,t,e,w,c,w  
p,f,y,y,f,f,f,c,b,h,e,b,k,k,p,n,p,w,o,l,h,v,g  
p,x,y,e,f,y,f,c,n,b,t,?,k,s,p,w,p,w,o,e,w,v,l  
p,x,s,g,t,f,f,c,b,h,t,b,f,f,w,w,p,w,o,p,h,s,u  
e,f,s,n,t,n,f,c,b,e,e,?,s,s,w,e,p,w,t,e,w,c,w  
p,x,y,g,f,f,f,c,b,g,e,b,k,k,p,p,w,o,l,h,v,p

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p,f,y,p,t,n,f,c,b,w,e,b,s,s,w,w,p,w,t,p,r,v,m  
e,k,y,b,t,n,f,c,b,w,e,?,s,s,e,w,p,w,t,e,w,c,w  
p,x,s,w,t,f,f,c,b,w,t,b,s,s,w,w,p,w,o,p,h,v,u  
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e,k,y,n,t,n,f,c,b,w,e,?,s,s,e,w,p,w,t,e,w,c,w  
p,f,y,y,f,f,c,b,g,e,b,k,k,n,p,p,w,o,l,h,y,d  
e,x,y,p,t,n,f,c,b,w,e,?,s,s,e,e,p,w,t,e,w,c,w  
p,f,s,g,t,f,f,c,b,p,t,b,f,f,w,w,p,w,o,p,h,s,u  
e,x,s,p,t,n,f,c,b,e,e,?,s,s,w,e,p,w,t,e,w,c,w  
p,b,y,n,f,n,f,c,n,w,e,?,k,y,w,n,p,w,o,e,w,v,d  
p,f,s,b,t,f,f,c,b,h,t,b,f,f,w,w,p,w,o,p,h,v,g  
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p,x,y,n,f,f,f,c,n,b,t,?,s,s,w,p,p,w,o,e,w,v,l  
e,k,y,p,t,n,f,c,b,w,e,?,s,s,w,e,p,w,t,e,w,c,w  
e,k,f,c,f,n,f,w,n,w,e,b,f,f,w,n,p,w,o,e,w,v,l  
p,x,y,y,f,f,f,c,b,h,e,b,k,k,b,n,p,w,o,l,h,v,g  
e,x,s,n,t,n,f,c,b,w,e,?,s,s,e,w,p,w,t,e,w,c,w  
p,f,f,g,f,f,f,c,b,p,e,b,k,k,b,p,p,w,o,l,h,y,p  
p,f,y,y,f,f,f,c,b,p,e,b,k,k,n,b,p,w,o,l,h,v,d  
p,f,s,g,t,f,f,c,b,w,t,b,s,f,w,w,p,w,o,p,h,v,u  
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p,k,f,y,f,n,f,c,n,w,e,?,k,y,w,y,p,w,o,e,w,v,d  
p,f,s,w,t,f,f,c,b,w,t,b,f,f,w,w,p,w,o,p,h,s,g  
p,f,y,y,f,n,f,c,n,w,e,?,k,y,w,y,p,w,o,e,w,v,d  
p,f,y,y,f,f,f,c,b,g,e,b,k,k,p,p,p,w,o,l,h,v,d  
e,k,s,b,t,n,f,c,b,e,e,?,s,s,w,e,p,w,t,e,w,c,w  
p,f,y,y,f,f,f,c,b,p,e,b,k,k,p,p,p,w,o,l,h,v,p  
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p,b,y,w,t,n,f,c,b,w,e,b,s,s,w,w,p,w,t,p,r,v,g  
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e,k,y,b,t,n,f,c,b,w,e,?,s,s,w,e,p,w,t,e,w,c,w  
p,f,y,y,f,f,f,c,b,g,e,b,k,k,b,n,p,w,o,l,h,v,p  
p,x,s,b,t,f,f,c,b,p,t,b,f,f,w,w,p,w,o,p,h,s,g  
p,b,y,b,t,n,f,c,b,w,e,b,s,s,w,w,p,w,t,p,r,v,m  
p,x,s,w,t,f,f,c,b,w,t,b,s,f,w,w,p,w,o,p,h,v,g  
e,k,s,n,t,n,f,c,b,w,e,?,s,s,w,e,p,w,t,e,w,c,w

p,f,s,g,t,f,f,c,b,w,t,b,f,s,w,w,p,w,o,p,h,s,u  
p,x,f,y,f,n,f,c,n,w,e,?,k,y,w,y,p,w,o,e,w,v,d  
p,f,s,g,t,f,f,c,b,p,t,b,s,s,w,w,p,w,o,p,h,v,g  
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p,k,y,n,f,n,f,c,n,w,e,?,k,y,w,y,p,w,o,e,w,v,d  
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e,k,s,n,t,n,f,c,b,e,e,?,s,s,e,e,p,w,t,e,w,c,w  
p,f,y,g,f,f,f,c,b,p,e,b,k,k,n,p,p,w,o,l,h,y,g  
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p,f,s,p,t,n,f,c,b,w,e,b,s,s,w,w,p,w,t,p,r,v,m  
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e,k,s,p,t,n,f,c,b,w,e,?,s,s,w,e,p,w,t,e,w,c,w  
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p,b,y,p,t,n,f,c,b,r,e,b,s,s,w,w,p,w,t,p,r,v,m  
p,x,s,b,t,f,f,c,b,h,t,b,f,s,w,w,p,w,o,p,h,s,u  
e,x,y,p,t,n,f,c,b,w,e,?,s,s,w,w,p,w,t,e,w,c,w  
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p,x,y,y,f,f,f,c,b,p,e,b,k,k,n,b,p,w,o,l,h,v,p  
p,x,s,w,t,f,f,c,b,p,t,b,s,f,w,w,p,w,o,p,h,v,u  
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p,f,s,w,t,f,f,c,b,p,t,b,s,f,w,w,p,w,o,p,h,v,g  
e,k,s,b,t,n,f,c,b,e,e,?,s,s,e,w,p,w,t,e,w,c,w  
p,x,s,b,t,f,f,c,b,p,t,b,f,f,w,w,p,w,o,p,h,v,g  
p,b,y,y,f,n,f,c,n,w,e,?,k,y,w,y,p,w,o,e,w,v,d  
p,x,s,w,t,f,f,c,b,h,t,b,s,s,w,w,p,w,o,p,h,s,u

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p,b,f,n,f,n,f,c,n,w,e,?,k,y,w,y,p,w,o,e,w,v,d  
p,f,y,y,f,f,f,c,b,p,e,b,k,k,p,p,p,w,o,l,h,y,p  
p,f,y,y,f,f,f,c,b,p,e,b,k,k,b,b,p,w,o,l,h,v,p  
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p,x,y,e,f,y,f,c,n,b,t,?,k,k,p,w,p,w,o,e,w,v,d  
p,f,s,w,t,f,f,c,b,h,t,b,s,s,w,w,p,w,o,p,h,s,g  
p,x,y,n,f,f,f,c,n,b,t,?,k,k,w,w,p,w,o,e,w,v,p  
p,b,y,p,t,n,f,c,b,r,e,b,s,s,w,w,p,w,t,p,r,v,g  
p,f,y,y,f,f,f,c,b,g,e,b,k,k,p,p,p,w,o,l,h,y,d  
p,x,s,b,t,f,f,c,b,w,t,b,s,f,w,w,p,w,o,p,h,s,g  
p,f,y,y,f,f,f,c,b,g,e,b,k,k,n,b,p,w,o,l,h,v,p  
p,f,s,b,t,f,f,c,b,p,t,b,f,s,w,w,p,w,o,p,h,s,g  
p,f,s,b,t,f,f,c,b,h,t,b,s,s,w,w,p,w,o,p,h,s,u  
p,x,y,n,f,y,f,c,n,b,t,?,k,k,p,p,p,w,o,e,w,v,p  
p,f,y,y,f,f,f,c,b,h,e,b,k,k,p,n,p,w,o,l,h,v,p  
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p,f,f,g,f,f,f,c,b,p,e,b,k,k,p,p,p,w,o,l,h,v,g  
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p,f,y,y,f,f,f,c,b,g,e,b,k,k,n,n,p,w,o,l,h,y,g  
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e,k,y,n,f,n,f,w,n,w,e,b,s,s,w,n,p,w,o,e,w,v,l  
p,b,s,p,t,n,f,c,b,r,e,b,s,s,w,w,p,w,t,p,r,v,m  
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p,x,s,w,t,f,f,c,b,w,t,b,s,f,w,w,p,w,o,p,h,v,u  
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p,b,y,w,t,n,f,c,b,r,e,b,s,s,w,w,p,w,t,p,r,v,m  
p,f,y,y,f,f,f,c,b,g,e,b,k,k,b,p,p,w,o,l,h,v,d  
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p,b,y,p,t,n,f,c,b,g,e,b,s,s,w,w,p,w,t,p,r,v,g  
e,x,y,c,f,n,f,w,n,w,e,b,s,s,w,n,p,w,o,e,w,v,l  
p,x,y,n,f,f,f,c,n,b,t,?,k,s,p,p,w,o,e,w,v,d

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p,x,y,n,f,f,f,c,n,b,t,?,k,k,p,p,w,o,e,w,v,d  
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p,f,s,g,t,f,f,c,b,p,t,b,s,s,w,w,p,w,o,p,h,s,u  
p,x,y,e,f,y,f,c,n,b,t,?,k,s,w,p,p,w,o,e,w,v,d  
e,x,y,r,f,n,f,c,n,h,e,?,s,f,w,w,p,w,o,f,h,y,d  
p,b,y,p,t,n,f,c,b,w,e,b,s,s,w,w,p,w,t,p,r,v,m  
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p,x,y,n,f,s,f,c,n,b,t,?,s,s,p,w,p,w,o,e,w,v,d  
e,k,y,p,t,n,f,c,b,e,e,?,s,s,e,w,p,w,t,e,w,c,w  
p,f,s,w,t,n,f,c,b,r,e,b,s,s,w,w,p,w,t,p,r,v,m  
p,x,y,n,f,f,f,c,n,b,t,?,k,s,w,p,p,w,o,e,w,v,l  
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p,f,s,w,t,n,f,c,b,r,e,b,s,s,w,w,p,w,t,p,r,v,g  
p,f,f,g,f,f,f,c,b,h,e,b,k,k,n,p,p,w,o,l,h,y,g  
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p,f,y,y,f,f,f,c,b,g,e,b,k,k,p,n,p,w,o,l,h,v,g  
p,b,s,w,t,n,f,c,b,g,e,b,s,s,w,w,p,w,t,p,r,v,g  
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e,k,y,e,t,n,f,c,b,w,e,?s,s,e,w,p,w,t,e,w,c,w  
p,x,s,b,t,f,f,c,b,w,t,b,f,f,w,w,p,w,o,p,h,v,u  
p,x,s,g,t,f,f,c,b,w,t,b,s,s,w,w,p,w,o,p,h,v,g  
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e,f,y,w,f,n,f,c,n,u,e,?s,f,w,w,p,w,o,f,h,v,d  
e,x,y,p,t,n,f,c,b,w,e,?s,s,w,e,p,w,t,e,w,c,w  
p,x,s,b,t,f,f,c,b,p,t,b,s,s,w,w,p,w,o,p,h,v,u  
p,k,g,w,t,n,f,w,n,w,e,b,s,s,w,w,p,w,o,p,w,c,l

p,f,s,g,t,f,f,c,b,p,t,b,s,s,w,w,p,w,o,p,h,s,g  
p,x,y,n,f,s,f,c,n,b,t,?,s,s,p,w,p,w,o,e,w,v,p  
e,k,s,e,t,n,f,c,b,w,e,?,s,s,w,w,p,w,t,e,w,c,w  
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p,x,s,g,t,f,f,c,b,p,t,b,s,s,w,w,p,w,o,p,h,v,g  
e,k,s,n,t,n,f,c,b,w,e,?,s,s,w,w,p,w,t,e,w,c,w  
p,f,s,g,t,f,f,c,b,p,t,b,s,f,w,w,p,w,o,p,h,s,g  
e,k,y,p,t,n,f,c,b,e,e,?,s,s,e,e,p,w,t,e,w,c,w  
p,f,y,b,t,n,f,c,b,g,e,b,s,s,w,w,p,w,t,p,r,v,m  
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p,f,s,g,t,f,f,c,b,p,t,b,s,f,w,w,p,w,o,p,h,v,u  
p,f,s,w,t,f,f,c,b,w,t,b,f,s,w,w,p,w,o,p,h,v,g  
p,b,s,b,t,n,f,c,b,r,e,b,s,s,w,w,p,w,t,p,r,v,m  
p,b,s,p,t,n,f,c,b,r,e,b,s,s,w,w,p,w,t,p,r,v,g  
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p,x,y,n,f,f,f,c,n,b,t,?,k,k,p,w,p,w,o,e,w,v,d  
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p,f,s,p,t,n,f,c,b,r,e,b,s,s,w,w,p,w,t,p,r,v,m  
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p,f,y,y,f,f,f,c,b,g,e,b,k,k,p,p,w,o,l,h,y,p  
p,f,s,w,t,f,f,c,b,h,t,b,s,f,w,w,p,w,o,p,h,v,g  
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p,b,s,w,t,n,f,c,b,r,e,b,s,s,w,w,p,w,t,p,r,v,g  
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p,f,y,y,f,f,f,c,b,p,e,b,k,k,b,n,p,w,o,l,h,v,p  
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p,x,s,b,t,f,f,c,b,p,t,b,s,f,w,w,p,w,o,p,h,v,g  
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p,x,s,g,t,f,f,c,b,w,t,b,f,f,w,w,p,w,o,p,h,v,g  
p,f,f,g,f,f,f,c,b,p,e,b,k,k,p,n,p,w,o,l,h,y,p  
p,x,s,w,t,f,f,c,b,h,t,b,s,f,w,w,p,w,o,p,h,s,g  
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p,f,y,y,f,f,f,c,b,g,e,b,k,k,b,p,p,w,o,l,h,v,p  
p,x,s,b,t,f,f,c,b,h,t,b,s,f,w,w,p,w,o,p,h,v,u  
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p,f,y,g,f,f,f,c,b,h,e,b,k,k,n,p,p,w,o,l,h,y,p  
p,f,f,g,f,f,f,c,b,g,e,b,k,k,b,n,p,w,o,l,h,v,p  
p,b,s,p,t,n,f,c,b,g,e,b,s,s,w,w,p,w,t,p,r,v,m  
p,x,y,n,f,f,f,c,n,b,t,?,s,s,p,w,p,w,o,e,w,v,l  
p,b,s,w,t,n,f,c,b,w,e,b,s,s,w,w,p,w,t,p,r,v,g  
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p,x,y,n,f,y,f,c,n,b,t,?,s,s,p,w,p,w,o,e,w,v,p  
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p,x,y,n,f,f,f,c,n,b,t,?,k,s,w,p,p,w,o,e,w,v,p  
p,f,s,b,t,f,f,c,b,w,t,b,s,s,w,w,p,w,o,p,h,s,g  
p,b,y,y,f,n,f,c,n,w,e,?,k,y,w,n,p,w,o,e,w,v,d  
p,x,s,g,t,f,f,c,b,w,t,b,f,f,w,w,p,w,o,p,h,v,u  
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p,b,y,p,t,n,f,c,b,g,e,b,s,s,w,w,p,w,t,p,r,v,m  
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p,x,f,y,f,f,f,c,b,p,e,b,k,k,n,n,p,w,o,l,h,v,g  
p,x,y,n,f,s,f,c,n,b,t,?,k,s,p,w,p,w,o,e,w,v,p  
p,f,y,b,t,n,f,c,b,w,e,b,s,s,w,w,p,w,t,p,r,v,g  
p,x,s,b,t,f,f,c,b,h,t,b,f,f,w,w,p,w,o,p,h,v,u  
p,b,s,b,t,n,f,c,b,r,e,b,s,s,w,w,p,w,t,p,r,v,g

e,f,y,w,f,n,f,c,n,p,e,?,s,f,w,w,p,w,o,f,h,y,d  
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p,x,s,n,f,y,f,c,n,b,t,?,k,k,w,p,p,w,o,e,w,v,d  
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e,b,s,n,f,n,a,c,b,o,e,? ,s,s,o,o,p,n,o,p,y,v,l  
p,f,s,n,f,y,f,c,n,b,t,? ,s,s,p,p,p,w,o,e,w,v,d  
p,f,y,n,f,s,f,c,n,b,t,? ,k,k,p,w,p,w,o,e,w,v,d  
p,x,y,e,f,s,f,c,n,b,t,? ,s,k,w,p,p,w,o,e,w,v,d  
p,x,s,e,f,s,f,c,n,b,t,? ,k,s,p,p,p,w,o,e,w,v,d  
p,k,y,c,f,m,a,c,b,w,e,c,k,y,c,c,p,w,n,n,w,c,d  
p,x,s,e,f,s,f,c,n,b,t,? ,s,s,w,w,p,w,o,e,w,v,l  
p,f,s,n,f,s,f,c,n,b,t,? ,k,k,w,p,p,w,o,e,w,v,p  
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p,x,y,e,f,s,f,c,n,b,t,? ,s,k,w,w,p,w,o,e,w,v,d  
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p,f,s,n,f,s,f,c,n,b,t,? ,k,k,w,w,p,w,o,e,w,v,d  
p,f,y,e,f,y,f,c,n,b,t,? ,k,s,p,p,p,w,o,e,w,v,p  
p,x,s,e,f,y,f,c,n,b,t,? ,s,k,p,p,p,w,o,e,w,v,l  
p,f,y,e,f,s,f,c,n,b,t,? ,s,k,w,p,p,w,o,e,w,v,d  
p,f,y,n,f,y,f,c,n,b,t,? ,s,k,p,w,p,w,o,e,w,v,l  
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p,f,y,e,f,s,f,c,n,b,t,?,s,k,p,p,w,o,e,w,v,l  
p,f,y,n,f,f,f,c,n,b,t,?,k,s,p,w,p,w,o,e,w,v,d  
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e,b,s,n,f,n,a,c,b,y,e,?,s,s,o,o,p,n,o,p,o,c,l  
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p,f,s,n,f,f,f,c,n,b,t,?,s,k,w,w,p,w,o,e,w,v,p  
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e,b,s,g,f,n,f,w,b,w,e,?,s,s,w,w,p,w,t,p,w,n,g  
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p,k,y,n,f,s,f,c,n,b,t,?,s,s,w,w,p,w,o,e,w,v,d  
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p,f,s,e,f,f,f,c,n,b,t,?,k,k,w,p,p,w,o,e,w,v,p  
p,k,s,e,f,f,f,c,n,b,t,?,s,s,p,p,p,w,o,e,w,v,l  
e,k,f,g,f,n,f,w,b,p,e,?,s,s,w,w,p,w,t,p,w,n,g  
e,x,f,w,f,n,f,w,b,p,e,?,k,k,w,w,p,w,t,p,w,s,g  
e,x,s,c,t,n,f,c,b,w,e,b,s,s,w,w,p,w,t,p,w,y,p  
e,k,f,g,f,n,f,w,b,w,e,?,s,s,w,w,p,w,t,p,w,s,g  
p,k,s,e,f,y,f,c,n,b,t,?,s,s,p,w,p,w,o,e,w,v,l  
p,k,y,e,f,y,f,c,n,b,t,?,s,s,w,p,p,w,o,e,w,v,p  
p,k,s,n,f,y,f,c,n,b,t,?,s,s,w,p,p,w,o,e,w,v,p  
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e,k,s,n,f,n,a,c,b,o,e,?,s,s,o,o,p,o,o,p,o,c,l  
p,f,y,y,f,n,f,w,n,w,e,c,y,y,y,p,y,o,e,w,c,l  
p,x,y,c,f,m,a,c,b,w,e,c,k,y,c,c,p,w,n,n,w,c,d  
p,x,s,n,f,y,f,c,n,b,t,?,s,s,w,w,p,w,o,e,w,v,d  
e,x,y,p,t,n,f,c,b,w,e,b,s,s,w,w,p,w,t,p,w,v,p  
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e,k,s,g,f,n,f,w,b,g,e,?,s,k,w,w,p,w,t,p,w,n,g  
e,b,s,g,f,n,f,w,b,p,e,?,s,k,w,w,p,w,t,p,w,s,g

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e,b,s,n,f,n,a,c,b,o,e,?,s,s,o,o,p,n,o,p,b,v,l  
e,f,s,n,t,n,f,c,b,w,e,b,s,s,w,w,p,w,t,p,w,y,p  
e,k,s,g,f,n,f,w,b,g,e,?,s,s,w,w,p,w,t,p,w,s,g  
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e,k,s,n,f,n,a,c,b,o,e,?,s,s,o,o,p,o,o,p,y,v,l  
p,k,s,e,f,f,f,c,n,b,t,?,s,k,p,w,p,w,o,e,w,v,p  
e,b,s,w,f,n,f,w,b,w,e,?,k,k,w,w,p,w,t,p,w,s,g  
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e,b,s,g,f,n,f,w,b,g,e,? ,s,k,w,w,p,w,t,p,w,s,g  
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e,f,s,n,f,n,a,c,b,o,e,? ,s,s,o,o,p,n,o,p,o,c,l  
p,f,s,n,f,s,f,c,n,b,t,? ,s,s,w,w,p,w,o,e,w,v,d

p,k,s,n,f,s,f,c,n,b,t,?,k,k,p,w,p,w,o,e,w,v,l  
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e,b,f,g,f,n,f,w,b,g,e,?,k,k,w,w,p,w,t,p,w,s,g  
e,b,s,g,f,n,f,w,b,p,e,?,k,s,w,w,p,w,t,p,w,n,g  
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e,x,s,n,f,n,a,c,b,n,e,?,s,s,o,o,p,o,o,p,b,c,l  
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Car Evaluation.csv

<https://archive.ics.uci.edu/ml/datasets/car+evaluation>

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## Sklearn Source Code

The following is documented source code used from Sklearn.

<https://scikit-learn.org/stable/modules/ensemble.html#forests-of-randomized-trees>

<https://scikit-learn.org/stable/modules/tree.html#tree-algorithms-id3-c4-5-c5-0-and-cart>

## **Sklearn.ensemble import RandomForestClassifier**

```
class sklearn.ensemble.RandomForestClassifier(n_estimators=100, *, criterion='gini', max_depth=None, min_samples_split=2, min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='sqrt', max_leaf_nodes=None, min_impurity_decrease=0.0, bootstrap=True, oob_score=False, n_jobs=None, random_state=None, verbose=0, warm_start=False, class_weight=None, ccp_alpha=0.0, max_samples=None)\[source\]
```

A random forest classifier.

A random forest is a meta estimator that fits a number of decision tree classifiers on various sub-samples of the dataset and uses averaging to improve the predictive accuracy and control overfitting. The sub-sample size is controlled with the `max_samples` parameter if `bootstrap=True` (default), otherwise the whole dataset is used to build each tree.

Read more in the [User Guide](#).

### **Parameters:**

#### **n\_estimatorsint, default=100**

The number of trees in the forest.

*Changed in version 0.22:* The default value of `n_estimators` changed from 10 to 100 in 0.22.

#### **criterion{"gini", "entropy", "log\_loss"}, default="gini"**

The function to measure the quality of a split. Supported criteria are “gini” for the Gini impurity and “log\_loss” and “entropy” both for the Shannon information gain, see [Mathematical formulation](#). Note: This parameter is tree-specific.

#### **max\_depthint, default=None**

The maximum depth of the tree. If None, then nodes are expanded until all leaves are pure or until all leaves contain less than `min_samples_split` samples.

#### **min\_samples\_splitint or float, default=2**

The minimum number of samples required to split an internal node:

- If int, then consider `min_samples_split` as the minimum number.
- If float, then `min_samples_split` is a fraction and `ceil(min_samples_split * n_samples)` are the minimum number of samples for each split.

*Changed in version 0.18:* Added float values for fractions.

#### **min\_samples\_leafint or float, default=1**

The minimum number of samples required to be at a leaf node. A split point at any depth will only be considered if it leaves at least `min_samples_leaf` training samples in each of the left and right branches. This may have the effect of smoothing the model, especially in regression.

- If int, then consider `min_samples_leaf` as the minimum number.

- If float, then `min_samples_leaf` is a fraction and `ceil(min_samples_leaf * n_samples)` are the minimum number of samples for each node.

*Changed in version 0.18:* Added float values for fractions.

#### **`min_weight_fraction_leaf` float, default=0.0**

The minimum weighted fraction of the sum total of weights (of all the input samples) required to be at a leaf node. Samples have equal weight when `sample_weight` is not provided.

#### **`max_features`{“sqrt”, “log2”, *None*}, int or float, default=“sqrt”**

The number of features to consider when looking for the best split:

- If int, then consider `max_features` features at each split.
- If float, then `max_features` is a fraction and `max(1, int(max_features * n_features_in_))` features are considered at each split.
- If “auto”, then `max_features=sqrt(n_features)`.
- If “sqrt”, then `max_features=sqrt(n_features)`.
- If “log2”, then `max_features=log2(n_features)`.
- If None, then `max_features=n_features`.

*Changed in version 1.1:* The default of `max_features` changed from “auto” to “sqrt”.

*Deprecated since version 1.1:* The “auto” option was deprecated in 1.1 and will be removed in 1.3.

Note: the search for a split does not stop until at least one valid partition of the node samples is found, even if it requires to effectively inspect more than `max_features` features.

#### **`max_leaf_nodes` int, default=None**

Grow trees with `max_leaf_nodes` in best-first fashion. Best nodes are defined as relative reduction in impurity. If None then unlimited number of leaf nodes.

#### **`min_impurity_decrease` float, default=0.0**

A node will be split if this split induces a decrease of the impurity greater than or equal to this value.

The weighted impurity decrease equation is the following:

$$N_t / N * (\text{impurity} - N_{t,R} / N_t * \text{right\_impurity} - N_{t,L} / N_t * \text{left\_impurity})$$

where `N` is the total number of samples, `N_t` is the number of samples at the current node, `N_t_L` is the number of samples in the left child, and `N_t_R` is the number of samples in the right child.

`N`, `N_t`, `N_t_R` and `N_t_L` all refer to the weighted sum, if `sample_weight` is passed.

*New in version 0.19.*

**`bootstrap`***bool, default=True*

Whether bootstrap samples are used when building trees. If False, the whole dataset is used to build each tree.

**`oob_score`***bool, default=False*

Whether to use out-of-bag samples to estimate the generalization score. Only available if `bootstrap=True`.

**`n_jobs`***int, default=None*

The number of jobs to run in parallel. `fit`, `predict`, `decision_path` and `apply` are all parallelized over the trees. None means 1 unless in a `joblib.parallel_backend` context. -1 means using all processors. See [Glossary](#) for more details.

**`random_state`***int, RandomState instance or None, default=None*

Controls both the randomness of the bootstrapping of the samples used when building trees (if `bootstrap=True`) and the sampling of the features to consider when looking for the best split at each node (if `max_features < n_features`). See [Glossary](#) for details.

**`verbose`***int, default=0*

Controls the verbosity when fitting and predicting.

**`warm_start`***bool, default=False*

When set to True, reuse the solution of the previous call to fit and add more estimators to the ensemble, otherwise, just fit a whole new forest. See [Glossary](#) and [Fitting additional weak-learners](#) for details.

**`class_weight`***{"balanced", "balanced\_subsample"}, dict or list of dicts, default=None*

Weights associated with classes in the form {class\_label: weight}. If not given, all classes are supposed to have weight one. For multi-output problems, a list of dicts can be provided in the same order as the columns of y.

Note that for multioutput (including multilabel) weights should be defined for each class of every column in its own dict. For example, for four-class multilabel classification weights should be [{0: 1, 1: 1}, {0: 1, 1: 5}, {0: 1, 1: 1}, {0: 1, 1: 1}] instead of [{1:1}, {2:5}, {3:1}, {4:1}].

The “balanced” mode uses the values of y to automatically adjust weights inversely proportional to class frequencies in the input data as `n_samples / (n_classes * np.bincount(y))`

The “balanced\_subsample” mode is the same as “balanced” except that weights are computed based on the bootstrap sample for every tree grown.

For multi-output, the weights of each column of y will be multiplied.

Note that these weights will be multiplied with sample\_weight (passed through the fit method) if sample\_weight is specified.

**ccp\_alpha** *non-negative float, default=0.0*

Complexity parameter used for Minimal Cost-Complexity Pruning. The subtree with the largest cost complexity that is smaller than ccp\_alpha will be chosen. By default, no pruning is performed. See [Minimal Cost-Complexity Pruning](#) for details.

*New in version 0.22.*

**max\_samples** *int or float, default=None*

If bootstrap is True, the number of samples to draw from X to train each base estimator.

- 
- If None (default), then draw X.shape[0] samples.
  - If int, then draw max\_samples samples.
  - If float, then draw max\_samples \* X.shape[0] samples.  
Thus, max\_samples should be in the interval (0.0, 1.0].

*New in version 0.22.*

**Attributes:**

**estimator\_** *DecisionTreeClassifier*

The child estimator template used to create the collection of fitted sub-estimators.

*New in version 1.2:* base\_estimator\_ was renamed to estimator\_.

**base\_estimator\_** *DecisionTreeClassifier*

Estimator used to grow the ensemble.

**estimators\_** *list of DecisionTreeClassifier*

The collection of fitted sub-estimators.

**classes\_** *ndarray of shape (n\_classes,) or a list of such arrays*

The classes labels (single output problem), or a list of arrays of class labels (multi-output problem).

**n\_classes\_** *int or list*

The number of classes (single output problem), or a list containing the number of classes for each output (multi-output problem).

**n\_features\_in\_** *int*

Number of features seen during [fit](#).

*New in version 0.24.*

**feature\_names\_in\_** *ndarray of shape (n\_features\_in\_,)*

Names of features seen during [fit](#). Defined only when X has feature names that are all strings.

*New in version 1.0.*

**n\_outputs\_** *int*

The number of outputs when fit is performed.

#### **feature\_importances\_***ndarray of shape (n\_features,)*

The impurity-based feature importances.

#### **oob\_score\_***float*

Score of the training dataset obtained using an out-of-bag estimate. This attribute exists only when oob\_score is True.

#### **oob\_decision\_function\_***ndarray of shape (n\_samples, n\_classes) or (n\_samples, n\_classes, n\_outputs)*

Decision function computed with out-of-bag estimate on the training set. If n\_estimators is small it might be possible that a data point was never left out during the bootstrap. In this case, oob\_decision\_function\_ might contain NaN. This attribute exists only when oob\_score is True.

---

### **Sklearn.model\_selection import train\_test\_split**

**model\_selection.train\_test\_split(\*arrays[,** Split arrays or matrices into random train and test ...])

subsets.

---

### **Sklearn.preprocessing import LabelEncoder**

**preprocessing.LabelEncoder()** Encode target labels with value between 0 and n\_classes-1.

---

### **Sklearn.metrics import accuracy\_score, confusion\_matrix**

**metrics.accuracy\_score(y\_true, y\_pre** d, \*[, ...]) Accuracy classification score.

**metrics.confusion\_matrix(y\_true, y\_pr** ed, \*) Compute confusion matrix to evaluate the accuracy of a classification.

---

### **Sklearn.model\_selection import cross\_val\_score**

**model\_selection.cross\_val\_score(estimator, X)** Evaluate a score by cross-validation.

---

### **Sklearn.tree import DecisionTreeClassifier**

```
class sklearn.tree.DecisionTreeClassifier(*, criterion='gini', splitter='best', max_depth=None, min_samples_split=2, min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features=None, random_state=None, max_leaf_nodes=None, min_impurity_decrease=0.0, class_weight=None, ccp_alpha=0.0)[source]
```

A decision tree classifier.

Read more in the [User Guide](#).

---

#### **Parameters:**

criterion{“gini”, “entropy”, “log\_loss”}, default=”gini”

The function to measure the quality of a split. Supported criteria are “gini” for the Gini impurity and “log\_loss” and “entropy” both for the Shannon information gain, see [Mathematical formulation](#).

#### **splitter{“best”, “random”}, default=“best”**

The strategy used to choose the split at each node. Supported strategies are “best” to choose the best split and “random” to choose the best random split.

#### **max\_depthint, default=None**

The maximum depth of the tree. If None, then nodes are expanded until all leaves are pure or until all leaves contain less than min\_samples\_split samples.

#### **min\_samples\_splitint or float, default=2**

The minimum number of samples required to split an internal node:

- If int, then consider min\_samples\_split as the minimum number.
- If float, then min\_samples\_split is a fraction  
and ceil(min\_samples\_split \* n\_samples) are the minimum number of samples for each split.

*Changed in version 0.18:* Added float values for fractions.

#### **min\_samples\_leafint or float, default=1**

The minimum number of samples required to be at a leaf node. A split point at any depth will only be considered if it leaves at least min\_samples\_leaf training samples in each of the left and right branches. This may have the effect of smoothing the model, especially in regression.

- If int, then consider min\_samples\_leaf as the minimum number.
- If float, then min\_samples\_leaf is a fraction  
and ceil(min\_samples\_leaf \* n\_samples) are the minimum number of samples for each node.

*Changed in version 0.18:* Added float values for fractions.

#### **min\_weight\_fraction\_leaffloat, default=0.0**

The minimum weighted fraction of the sum total of weights (of all the input samples) required to be at a leaf node. Samples have equal weight when sample\_weight is not provided.

#### **max\_featuresint, float or {“auto”, “sqrt”, “log2”}, default=None**

The number of features to consider when looking for the best split:

- If int, then consider max\_features features at each split.
- If float, then max\_features is a fraction  
and max(1, int(max\_features \* n\_features\_in\_)) features are considered at each split.
- If “auto”, then max\_features=sqrt(n\_features).
- If “sqrt”, then max\_features=sqrt(n\_features).
- If “log2”, then max\_features=log2(n\_features).

- If None, then max\_features=n\_features.

*Deprecated since version 1.1: The "auto" option was deprecated in 1.1 and will be removed in 1.3.*

Note: the search for a split does not stop until at least one valid partition of the node samples is found, even if it requires to effectively inspect more than max\_features features.

#### **random\_stateint, RandomState instance or None, default=None**

Controls the randomness of the estimator. The features are always randomly permuted at each split, even if splitter is set to "best". When max\_features < n\_features, the algorithm will select max\_features at random at each split before finding the best split among them. But the best found split may vary across different runs, even if max\_features=n\_features. That is the case, if the improvement of the criterion is identical for several splits and one split has to be selected at random. To obtain a deterministic behaviour during fitting, random\_state has to be fixed to an integer. See [Glossary](#) for details.

#### **max\_leaf\_nodesint, default=None**

Grow a tree with max\_leaf\_nodes in best-first fashion. Best nodes are defined as relative reduction in impurity. If None then unlimited number of leaf nodes.

#### **min\_impurity\_decreasefloat, default=0.0**

A node will be split if this split induces a decrease of the impurity greater than or equal to this value.

The weighted impurity decrease equation is the following:

$$N_t / N * (\text{impurity} - N_{t,R} / N_t * \text{right\_impurity} - N_{t,L} / N_t * \text{left\_impurity})$$

where N is the total number of samples, N\_t is the number of samples at the current node, N\_t\_L is the number of samples in the left child, and N\_t\_R is the number of samples in the right child.

N, N\_t, N\_t\_R and N\_t\_L all refer to the weighted sum, if sample\_weight is passed.

*New in version 0.19.*

#### **class\_weightdict, list of dict or “balanced”, default=None**

Weights associated with classes in the form {class\_label: weight}. If None, all classes are supposed to have weight one. For multi-output problems, a list of dicts can be provided in the same order as the columns of y.

Note that for multioutput (including multilabel) weights should be defined for each class of every column in its own dict. For example, for four-class multilabel classification weights should be [{0: 1, 1: 1}, {0: 1, 1: 5}, {0: 1, 1: 1}, {0: 1, 1: 1}] instead of [{1:1}, {2:5}, {3:1}, {4:1}].

The “balanced” mode uses the values of y to automatically adjust weights inversely proportional to class frequencies in the input data  
as `n_samples / (n_classes * np.bincount(y))`

For multi-output, the weights of each column of y will be multiplied.

Note that these weights will be multiplied with sample\_weight (passed through the fit method) if sample\_weight is specified.

**ccp\_alpha***non-negative float, default=0.0*

Complexity parameter used for Minimal Cost-Complexity Pruning. The subtree with the largest cost complexity that is smaller than ccp\_alpha will be chosen. By default, no pruning is performed. See [Minimal Cost-Complexity Pruning](#) for details.

*New in version 0.22.*

**Attributes:**

**classes***ndarray of shape (n\_classes,) or list of ndarray*

The classes labels (single output problem), or a list of arrays of class labels (multi-output problem).

**feature\_importances***ndarray of shape (n\_features,)*

Return the feature importances.

**max\_features***int*

The inferred value of max\_features.

**n\_classes***int or list of int*

The number of classes (for single output problems), or a list containing the number of classes for each output (for multi-output problems).

**n\_features\_in***int*

Number of features seen during `fit`.

*New in version 0.24.*

**feature\_names\_in***ndarray of shape (n\_features\_in,)*

Names of features seen during `fit`. Defined only when X has feature names that are all strings.

*New in version 1.0.*

**n\_outputs***int*

The number of outputs when `fit` is performed.

**tree***Tree instance*

The underlying Tree object. Please refer to `help(sklearn.tree._tree.Tree)` for attributes of Tree object and [Understanding the decision tree structure](#) for basic usage of these attributes.

## Notes

The default values for the parameters controlling the size of the trees (e.g. `max_depth`, `min_samples_leaf`, etc.) lead to fully grown and unpruned trees which can potentially be very large on some data sets. To reduce memory consumption, the complexity and size of the trees should be controlled by setting those parameter values.

The `predict` method operates using the `numpy.argmax` function on the outputs of `predict_proba`. This means that in case the highest predicted probabilities are tied, the classifier will predict the tied class with the lowest index in `classes_`.

## Methods

|  |  |
|--|--|
| <code>apply(X[, check_input])</code>                   | Return the index of the leaf that each sample is predicted as.   |
| <code>cost_complexity_pruning_path(X, y[, ...])</code> | Compute the pruning path during Minimal Cost-Complexity Pruning. |
| <code>decision_path(X[, check_input])</code>           | Return the decision path in the tree.                            |
| <code>fit(X, y[, sample_weight, check_input])</code>   | Build a decision tree classifier from the training set (X, y).   |
| <code>get_depth()</code>                               | Return the depth of the decision tree.                           |
| <code>get_n_leaves()</code>                            | Return the number of leaves of the decision tree.                |
| <code>get_params([deep])</code>                        | Get parameters for this estimator.                               |
| <code>predict(X[, check_input])</code>                 | Predict class or regression value for X.                         |
| <code>predict_log_proba(X)</code>                      | Predict class log-probabilities of the input samples X.          |
| <code>predict_proba(X[, check_input])</code>           | Predict class probabilities of the input samples X.              |
| <code>score(X, y[, sample_weight])</code>              | Return the mean accuracy on the given test data and labels.      |
| <code>set_params(**params)</code>                      | Set the parameters of this estimator.                            |

**apply(X, check\_input=True)[source]**

Return the index of the leaf that each sample is predicted as.

*New in version 0.17.*

### Parameters:

`X{array-like, sparse matrix} of shape (n_samples, n_features)`

The input samples. Internally, it will be converted to `dtype=np.float32` and if a sparse matrix is provided to a sparse `csr_matrix`.

`check_inputbool, default=True`

Allow to bypass several input checking. Don't use this parameter unless you know what you're doing.

### Returns:

`X_leavesarray-like of shape (n_samples,)`

For each datapoint  $x$  in  $X$ , return the index of the leaf  $x$  ends up in. Leaves are numbered within  $[0; \text{self.tree\_node\_count}]$ , possibly with gaps in the numbering.

### **`cost_complexity_pruning_path(X, y, sample_weight=None)`**[\[source\]](#)

Compute the pruning path during Minimal Cost-Complexity Pruning.

See [Minimal Cost-Complexity Pruning](#) for details on the pruning process.

#### **Parameters:**

**`X{array-like, sparse matrix} of shape (n_samples, n_features)`**

The training input samples. Internally, it will be converted to `dtype=np.float32` and if a sparse matrix is provided to a sparse `csc_matrix`.

**`yarray-like of shape (n_samples,) or (n_samples, n_outputs)`**

The target values (class labels) as integers or strings.

**`sample_weightarray-like of shape (n_samples,), default=None`**

Sample weights. If None, then samples are equally weighted. Splits that would create child nodes with net zero or negative weight are ignored while searching for a split in each node. Splits are also ignored if they would result in any single class carrying a negative weight in either child node.

#### **Returns:**

**`ccp_pathBunch`**

Dictionary-like object, with the following attributes.

**`ccp_alphasndarray`**

Effective alphas of subtree during pruning.

**`impuritiesndarray`**

Sum of the impurities of the subtree leaves for the corresponding alpha value in `ccp_alphas`.

### **`decision_path(X, check_input=True)`**[\[source\]](#)

Return the decision path in the tree.

*New in version 0.18.*

#### **Parameters:**

**`X{array-like, sparse matrix} of shape (n_samples, n_features)`**

The input samples. Internally, it will be converted to `dtype=np.float32` and if a sparse matrix is provided to a sparse `csr_matrix`.

**`check_inputbool, default=True`**

Allow to bypass several input checking. Don't use this parameter unless you know what you're doing.

**Returns:**

**indicators***sparse matrix of shape (n\_samples, n\_nodes)*

Return a node indicator CSR matrix where non zero elements indicates that the samples goes through the nodes.

**property feature\_importances\_**

Return the feature importances.

The importance of a feature is computed as the (normalized) total reduction of the criterion brought by that feature. It is also known as the Gini importance.

Warning: impurity-based feature importances can be misleading for high cardinality features (many unique values). See [sklearn.inspection.permutation\\_importance](#) as an alternative.

**Returns:**

**feature\_importances\_***ndarray of shape (n\_features,)*

Normalized total reduction of criteria by feature (Gini importance).

**fit(X, y, sample\_weight=None, check\_input=True)[source]**

Build a decision tree classifier from the training set (X, y).

**Parameters:**

**X***{array-like, sparse matrix} of shape (n\_samples, n\_features)*

The training input samples. Internally, it will be converted to dtype=np.float32 and if a sparse matrix is provided to a sparse csc\_matrix.

**y***array-like of shape (n\_samples,) or (n\_samples, n\_outputs)*

The target values (class labels) as integers or strings.

**sample\_weight***array-like of shape (n\_samples,), default=None*

Sample weights. If None, then samples are equally weighted. Splits that would create child nodes with net zero or negative weight are ignored while searching for a split in each node. Splits are also ignored if they would result in any single class carrying a negative weight in either child node.

**check\_input***bool, default=True*

Allow to bypass several input checking. Don't use this parameter unless you know what you're doing.

**Returns:**

**self***DecisionTreeClassifier*

Fitted estimator.

**get\_depth()[source]**

Return the depth of the decision tree.

The depth of a tree is the maximum distance between the root and any leaf.

**Returns:**

`self.tree_.max_depth`*int*

The maximum depth of the tree.

**[get\_n\_leaves()][source]**

Return the number of leaves of the decision tree.

**Returns:**

`self.tree_.n_leaves`*int*

Number of leaves.

**[get\_params(deep=True)][source]**

Get parameters for this estimator.

**Parameters:**

`deep`*bool, default=True*

If True, will return the parameters for this estimator and contained subobjects that are estimators.

**Returns:**

`params`*dict*

Parameter names mapped to their values.

**[predict(X, check\_input=True)][source]**

Predict class or regression value for X.

For a classification model, the predicted class for each sample in X is returned. For a regression model, the predicted value based on X is returned.

**Parameters:**

`X`{array-like, sparse matrix} of shape *(n\_samples, n\_features)*

The input samples. Internally, it will be converted to `dtype=np.float32` and if a sparse matrix is provided to a sparse `csr_matrix`.

`check_input`*bool, default=True*

Allow to bypass several input checking. Don't use this parameter unless you know what you're doing.

**Returns:**

`y`array-like of shape *(n\_samples,) or (n\_samples, n\_outputs)*

The predicted classes, or the predict values.

**[predict\_log\_proba(X)][source]**

Predict class log-probabilities of the input samples X.

**Parameters:**

**X{array-like, sparse matrix} of shape (n\_samples, n\_features)**

The input samples. Internally, it will be converted to `dtype=np.float32` and if a sparse matrix is provided to a sparse `csr_matrix`.

**Returns:**

**prob and array of shape (n\_samples, n\_classes) or list of n\_outputs such arrays if n\_outputs > 1**

The class log-probabilities of the input samples. The order of the classes corresponds to that in the attribute `classes_`.

**`predict_proba(X, check_input=True)[source]`**

Predict class probabilities of the input samples X.

The predicted class probability is the fraction of samples of the same class in a leaf.

**Parameters:**

**X{array-like, sparse matrix} of shape (n\_samples, n\_features)**

The input samples. Internally, it will be converted to `dtype=np.float32` and if a sparse matrix is provided to a sparse `csr_matrix`.

**`check_input` bool, default=True**

Allow to bypass several input checking. Don't use this parameter unless you know what you're doing.

**Returns:**

**prob and array of shape (n\_samples, n\_classes) or list of n\_outputs such arrays if n\_outputs > 1**

The class probabilities of the input samples. The order of the classes corresponds to that in the attribute `classes_`.

**`score(X, y, sample_weight=None)[source]`**

Return the mean accuracy on the given test data and labels.

In multi-label classification, this is the subset accuracy which is a harsh metric since you require for each sample that each label set be correctly predicted.

**Parameters:**

**Xarray-like of shape (n\_samples, n\_features)**

Test samples.

**yarray-like of shape (n\_samples,) or (n\_samples, n\_outputs)**

True labels for X.

**sample\_weightarray-like of shape (n\_samples,), default=None**  
Sample weights.

**Returns:**

**scorefloat**

Mean accuracy of self.predict(X) w.r.t. y.

**set\_params(\*\*params)[source]**

Set the parameters of this estimator.

The method works on simple estimators as well as on nested objects (such as [Pipeline](#)). The latter have parameters of the form <component>\_\_<parameter> so that it's possible to update each component of a nested object.

**Parameters:**

**\*\*paramsdict**

Estimator parameters.

**Returns:**

**selfestimator instance**

Estimator instance.

## Weka Source Code

S. Lang, F. Bravo-Marquez, C. Beckham, M. Hall, and E. Frank [WekaDeepLearning4j: a Deep Learning Package for Weka based on DeepLearning4j](#), In Knowledge-Based Systems, Volume 178, 15 August 2019, Pages 48-50. DOI: 10.1016/j.knosys.2019.04.013 ([author version](#))

<https://github.com/Waikato/wekaDeepLearning4j>

<https://www.dbs.ifilmu.de/~zimek/diplomathesis/implementations/EHNDs/doc/weka/classifiers/trees/RandomForest.html>

Iris

<https://svn.cms.waikato.ac.nz/svn/weka/branches/stable-3-8/>

==== Source code ====

// Generated with Weka 3.8.6

//

// This code is public domain and comes with no warranty.

//

// Timestamp: Mon Apr 03 15:53:22 EDT 2023

```
package weka.classifiers;
```

```
import weka.core.Attribute;
import weka.core.Capabilities;
import weka.core.Capabilities.Capability;
import weka.core.Instance;
import weka.core.Instances;
```

```

import weka.core.RevisionUtils;
import weka.classifiers.Classifier;
import weka.classifiers.AbstractClassifier;

public class WekaWrapper
    extends AbstractClassifier {

    /**
     * Returns only the toString() method.
     *
     * @return a string describing the classifier
     */
    public String globalInfo() {
        return toString();
    }

    /**
     * Returns the capabilities of this classifier.
     *
     * @return the capabilities
     */
    public Capabilities getCapabilities() {
        weka.core.Capabilities result = new weka.core.Capabilities(this);

        result.enable(weka.core.Capabilities.Capability.NOMINAL_ATTRIBUTES);
        result.enable(weka.core.Capabilities.Capability.NUMERIC_ATTRIBUTES);
        result.enable(weka.core.Capabilities.Capability.DATE_ATTRIBUTES);
        result.enable(weka.core.Capabilities.Capability.MISSING_VALUES);
        result.enable(weka.core.Capabilities.Capability.NOMINAL_CLASS);
        result.enable(weka.core.Capabilities.Capability.MISSING_CLASS_VALUES);

        result.setMinimumNumberInstances(0);

        return result;
    }

    /**
     * only checks the data against its capabilities.
     *
     * @param i the training data
     */
    public void buildClassifier(Instances i) throws Exception {
        // can classifier handle the data?
        getCapabilities().testWithFail(i);
    }
}

```

```

/**
 * Classifies the given instance.
 *
 * @param i the instance to classify
 * @return the classification result
 */
public double classifyInstance(Instance i) throws Exception {
    Object[] s = new Object[i.numAttributes()];

    for (int j = 0; j < s.length; j++) {
        if (!i.isMissing(j)) {
            if (i.attribute(j).isNominal())
                s[j] = new String(i.stringValue(j));
            else if (i.attribute(j).isNumeric())
                s[j] = new Double(i.value(j));
        }
    }

    // set class value to missing
    s[i.classIndex()] = null;

    return WekaClassifier.classify(s);
}

/**
 * Returns the revision string.
 *
 * @return      the revision
 */
public String getRevision() {
    return RevisionUtils.extract("1.0");
}

/**
 * Returns only the classnames and what classifier it is based on.
 *
 * @return a short description
 */
public String toString() {
    return "Auto-generated classifier wrapper, based on weka.classifiers.trees.J48 (generated with
Weka 3.8.6).\n" + this.getClass().getName() + "/WekaClassifier";
}

/**
 * Runs the classifier from commandline.

```

```

*
 * @param args the commandline arguments
 */
public static void main(String args[]) {
    runClassifier(new WekaWrapper(), args);
}
}

class WekaClassifier {

    public static double classify(Object[] i)
        throws Exception {

        double p = Double.NaN;
        p = WekaClassifier.N3407d0ea8(i);
        return p;
    }

    static double N3407d0ea8(Object []i) {
        double p = Double.NaN;
        if (i[3] == null) {
            p = 0;
        } else if (((Double) i[3]).doubleValue() <= 0.6) {
            p = 0;
        } else if (((Double) i[3]).doubleValue() > 0.6) {
            p = WekaClassifier.N2016c07b9(i);
        }
        return p;
    }

    static double N2016c07b9(Object []i) {
        double p = Double.NaN;
        if (i[3] == null) {
            p = 1;
        } else if (((Double) i[3]).doubleValue() <= 1.7) {
            p = WekaClassifier.N12e5e27310(i);
        } else if (((Double) i[3]).doubleValue() > 1.7) {
            p = 2;
        }
        return p;
    }

    static double N12e5e27310(Object []i) {
        double p = Double.NaN;
        if (i[2] == null) {
            p = 1;
        } else if (((Double) i[2]).doubleValue() <= 4.9) {
            p = 1;
        } else if (((Double) i[2]).doubleValue() > 4.9) {
    }
}

```

```

    p = WekaClassifier.N4a75f22611(i);
}
return p;
}
static double N4a75f22611(Object []i) {
    double p = Double.NaN;
    if (i[3] == null) {
        p = 2;
    } else if (((Double) i[3]).doubleValue() <= 1.5) {
        p = 2;
    } else if (((Double) i[3]).doubleValue() > 1.5) {
        p = 1;
    }
    return p;
}
}

```

## Mushroom

### Source Code

<https://weka.sourceforge.io/doc.stable-3-8/>

==== Source code ====

```

// Generated with Weka 3.8.6
//
// This code is public domain and comes with no warranty.
//
// Timestamp: Wed Mar 29 16:18:18 EDT 2023

```

```

package weka.classifiers;

import weka.core.Attribute;
import weka.core.Capabilities;
import weka.core.Capabilities.Capability;
import weka.core.Instance;
import weka.core.Instances;
import weka.core.RevisionUtils;
import weka.classifiers.Classifier;
import weka.classifiers.AbstractClassifier;

```

```

public class WekaWrapper
    extends AbstractClassifier {

    /**
     * Returns only the toString() method.
     *
     * @return a string describing the classifier
     */
    public String globalInfo() {

```

```

        return toString();
    }

    /**
     * Returns the capabilities of this classifier.
     *
     * @return the capabilities
     */
    public Capabilities getCapabilities() {
        weka.core.Capabilities result = new weka.core.Capabilities(this);

        result.enable(weka.core.Capabilities.Capability.NOMINAL_ATTRIBUTES);
        result.enable(weka.core.Capabilities.Capability.NUMERIC_ATTRIBUTES);
        result.enable(weka.core.Capabilities.Capability.DATE_ATTRIBUTES);
        result.enable(weka.core.Capabilities.Capability.MISSING_VALUES);
        result.enable(weka.core.Capabilities.Capability.NOMINAL_CLASS);
        result.enable(weka.core.Capabilities.Capability.MISSING_CLASS_VALUES);

        result.setMinimumNumberInstances(0);

        return result;
    }

    /**
     * only checks the data against its capabilities.
     *
     * @param i the training data
     */
    public void buildClassifier(Instances i) throws Exception {
        // can classifier handle the data?
        getCapabilities().testWithFail(i);
    }

    /**
     * Classifies the given instance.
     *
     * @param i the instance to classify
     * @return the classification result
     */
    public double classifyInstance(Instance i) throws Exception {
        Object[] s = new Object[i.numAttributes()];

        for (int j = 0; j < s.length; j++) {
            if (!i.isMissing(j)) {
                if (i.attribute(j).isNominal())

```

```

        s[j] = new String(i.stringValue(j));
    else if (i.attribute(j).isNumeric())
        s[j] = new Double(i.value(j));
    }
}

// set class value to missing
s[i.classIndex()] = null;

return WekaClassifier.classify(s);
}

/***
 * Returns the revision string.
 *
 * @return      the revision
 */
public String getRevision() {
    return RevisionUtils.extract("1.0");
}

/***
 * Returns only the classnames and what classifier it is based on.
 *
 * @return a short description
 */
public String toString() {
    return "Auto-generated classifier wrapper, based on weka.classifiers.trees.J48 (generated with
Weka 3.8.6).\n" + this.getClass().getName() + "/WekaClassifier";
}

/***
 * Runs the classifier from commandline.
 *
 * @param args the commandline arguments
 */
public static void main(String args[]) {
    runClassifier(new WekaWrapper(), args);
}
}

class WekaClassifier {

    public static double classify(Object[] i)
        throws Exception {

```

```
double p = Double.NaN;
p = WekaClassifier.N1f2287910(i);
return p;
}
static double N1f2287910(Object []i) {
    double p = Double.NaN;
    if (i[21] == null) {
        p = 1;
    } else if (i[21].equals("s")) {
        p = WekaClassifier.N6471c3221(i);
    } else if (i[21].equals("n")) {
        p = 1;
    } else if (i[21].equals("a")) {
        p = 1;
    } else if (i[21].equals("v")) {
        p = WekaClassifier.N150f45563(i);
    } else if (i[21].equals("y")) {
        p = WekaClassifier.N7fa4e87811(i);
    } else if (i[21].equals("c")) {
        p = WekaClassifier.N45d153aa14(i);
    }
    return p;
}
static double N6471c3221(Object []i) {
    double p = Double.NaN;
    if (i[0] == null) {
        p = 0;
    } else if (i[0].equals("p")) {
        p = WekaClassifier.N3e138b7a2(i);
    } else if (i[0].equals("e")) {
        p = 1;
    }
    return p;
}
static double N3e138b7a2(Object []i) {
    double p = Double.NaN;
    if (i[4] == null) {
        p = 0;
    } else if (i[4].equals("t")) {
        p = 0;
    } else if (i[4].equals("f")) {
        p = 3;
    }
    return p;
}
static double N150f45563(Object []i) {
```

```
double p = Double.NaN;
if (i[4] == null) {
    p = 3;
} else if (i[4].equals("t")) {
    p = WekaClassifier.N1e9a56694(i);
} else if (i[4].equals("f")) {
    p = WekaClassifier.N5672f3f96(i);
}
return p;
}
static double N1e9a56694(Object []i) {
    double p = Double.NaN;
    if (i[0] == null) {
        p = 1;
    } else if (i[0].equals("p")) {
        p = 1;
    } else if (i[0].equals("e")) {
        p = WekaClassifier.N7498fe4b5(i);
    }
    return p;
}
static double N7498fe4b5(Object []i) {
    double p = Double.NaN;
    if (i[10] == null) {
        p = 4;
    } else if (i[10].equals("e")) {
        p = 4;
    } else if (i[10].equals("t")) {
        p = 3;
    }
    return p;
}
static double N5672f3f96(Object []i) {
    double p = Double.NaN;
    if (i[20] == null) {
        p = 3;
    } else if (i[20].equals("k")) {
        p = WekaClassifier.N393829947(i);
    } else if (i[20].equals("n")) {
        p = WekaClassifier.N755d19c48(i);
    } else if (i[20].equals("u")) {
        p = 3;
    } else if (i[20].equals("h")) {
        p = 3;
    } else if (i[20].equals("w")) {
        p = WekaClassifier.N728058010(i);
    }
}
```

```
    } else if (i[20].equals("r")) {
        p = 3;
    } else if (i[20].equals("o")) {
        p = 6;
    } else if (i[20].equals("y")) {
        p = 6;
    } else if (i[20].equals("b")) {
        p = 6;
    }
    return p;
}
static double N393829947(Object []i) {
    double p = Double.NaN;
    if (i[0] == null) {
        p = 3;
    } else if (i[0].equals("p")) {
        p = 3;
    } else if (i[0].equals("e")) {
        p = 0;
    }
    return p;
}
static double N755d19c48(Object []i) {
    double p = Double.NaN;
    if (i[0] == null) {
        p = 3;
    } else if (i[0].equals("p")) {
        p = 3;
    } else if (i[0].equals("e")) {
        p = WekaClassifier.N4604db829(i);
    }
    return p;
}
static double N4604db829(Object []i) {
    double p = Double.NaN;
    if (i[2] == null) {
        p = 6;
    } else if (i[2].equals("s")) {
        p = 6;
    } else if (i[2].equals("y")) {
        p = 0;
    } else if (i[2].equals("f")) {
        p = 0;
    } else if (i[2].equals("g")) {
        p = 0;
    }
}
```

```
        return p;
    }
    static double N728058010(Object []i) {
        double p = Double.NaN;
        if (i[0] == null) {
            p = 3;
        } else if (i[0].equals("p")) {
            p = 3;
        } else if (i[0].equals("e")) {
            p = 6;
        }
        return p;
    }
    static double N7fa4e87811(Object []i) {
        double p = Double.NaN;
        if (i[10] == null) {
            p = 4;
        } else if (i[10].equals("e")) {
            p = WekaClassifier.N62aa4d7112(i);
        } else if (i[10].equals("t")) {
            p = 3;
        }
        return p;
    }
    static double N62aa4d7112(Object []i) {
        double p = Double.NaN;
        if (i[8] == null) {
            p = 0;
        } else if (i[8].equals("n")) {
            p = WekaClassifier.N212426d13(i);
        } else if (i[8].equals("b")) {
            p = 4;
        }
        return p;
    }
    static double N212426d13(Object []i) {
        double p = Double.NaN;
        if (i[2] == null) {
            p = 0;
        } else if (i[2].equals("s")) {
            p = 0;
        } else if (i[2].equals("y")) {
            p = 3;
        } else if (i[2].equals("f")) {
            p = 0;
        } else if (i[2].equals("g")) {
            p = 0;
        }
        return p;
    }
}
```

```

        p = 0;
    }
    return p;
}
static double N45d153aa14(Object []i) {
    double p = Double.NaN;
    if (i[18] == null) {
        p = 6;
    } else if (i[18].equals("o")) {
        p = 6;
    } else if (i[18].equals("t")) {
        p = 5;
    } else if (i[18].equals("n")) {
        p = 3;
    }
    return p;
}
}

```

## Car Evaluation

==== Source code ====

```

// Generated with Weka 3.8.6
//
// This code is public domain and comes with no warranty.
//
// Timestamp: Mon Apr 03 15:52:54 EDT 2023

package weka.classifiers;

import weka.core.Attribute;
import weka.core.Capabilities;
import weka.core.Capabilities.Capability;
import weka.core.Instance;
import weka.core.Instances;
import weka.core.RevisionUtils;
import weka.classifiers.Classifier;
import weka.classifiers.AbstractClassifier;

public class WekaWrapper
    extends AbstractClassifier {

    /**
     * Returns only the toString() method.
     *
     * @return a string describing the classifier

```

```

*/
public String globalInfo() {
    return toString();
}

/**
 * Returns the capabilities of this classifier.
 *
 * @return the capabilities
 */
public Capabilities getCapabilities() {
    weka.core.Capabilities result = new weka.core.Capabilities(this);

    result.enable(weka.core.Capabilities.Capability.NOMINAL_ATTRIBUTES);
    result.enable(weka.core.Capabilities.Capability.NUMERIC_ATTRIBUTES);
    result.enable(weka.core.Capabilities.Capability.DATE_ATTRIBUTES);
    result.enable(weka.core.Capabilities.Capability.MISSING_VALUES);
    result.enable(weka.core.Capabilities.Capability.NOMINAL_CLASS);
    result.enable(weka.core.Capabilities.Capability.MISSING_CLASS_VALUES);

    result.setMinimumNumberInstances(0);

    return result;
}

/**
 * only checks the data against its capabilities.
 *
 * @param i the training data
 */
public void buildClassifier(Instances i) throws Exception {
    // can classifier handle the data?
    getCapabilities().testWithFail(i);
}

/**
 * Classifies the given instance.
 *
 * @param i the instance to classify
 * @return the classification result
 */
public double classifyInstance(Instance i) throws Exception {
    Object[] s = new Object[i.numAttributes()];

    for (int j = 0; j < s.length; j++) {

```

```

        if (!i.isMissing(j)) {
            if (i.attribute(j).isNominal())
                s[j] = new String(i.stringValue(j));
            else if (i.attribute(j).isNumeric())
                s[j] = new Double(i.value(j));
        }
    }

    // set class value to missing
    s[i.classIndex()] = null;

    return WekaClassifier.classify(s);
}

/**
 * Returns the revision string.
 *
 * @return      the revision
 */
public String getRevision() {
    return RevisionUtils.extract("1.0");
}

/**
 * Returns only the classnames and what classifier it is based on.
 *
 * @return a short description
 */
public String toString() {
    return "Auto-generated classifier wrapper, based on weka.classifiers.trees.J48 (generated with
Weka 3.8.6).\n" + this.getClass().getName() + "/WekaClassifier";
}

/**
 * Runs the classifier from commandline.
 *
 * @param args the commandline arguments
 */
public static void main(String args[]) {
    runClassifier(new WekaWrapper(), args);
}
}

class WekaClassifier {

    public static double classify(Object[] i)

```

```

throws Exception {

    double p = Double.NaN;
    p = WekaClassifier.Nca0451d0(i);
    return p;
}
static double Nca0451d0(Object []i) {
    double p = Double.NaN;
    if (i[3] == null) {
        p = 1;
    } else if (((Double) i[3]).doubleValue() <= 0.0) {
        p = 1;
    } else if (((Double) i[3]).doubleValue() > 0.0) {
        p = WekaClassifier.N3afe99a41(i);
    }
    return p;
}
static double N3afe99a41(Object []i) {
    double p = Double.NaN;
    if (i[3] == null) {
        p = 0;
    } else if (((Double) i[3]).doubleValue() <= 6.0) {
        p = WekaClassifier.N10cb847c2(i);
    } else if (((Double) i[3]).doubleValue() > 6.0) {
        p = 0;
    }
    return p;
}
static double N10cb847c2(Object []i) {
    double p = Double.NaN;
    if (i[4] == null) {
        p = 0;
    } else if (((Double) i[4]).doubleValue() <= 477.0) {
        p = WekaClassifier.N664217de3(i);
    } else if (((Double) i[4]).doubleValue() > 477.0) {
        p = WekaClassifier.N1c9737067(i);
    }
    return p;
}
static double N664217de3(Object []i) {
    double p = Double.NaN;
    if (i[7] == null) {
        p = 1;
    } else if (((Double) i[7]).doubleValue() <= 29.0) {
        p = WekaClassifier.N68443ea64(i);
    } else if (((Double) i[7]).doubleValue() > 29.0) {

```

```

p = WekaClassifier.N26b9a9b35(i);
}
return p;
}
static double N68443ea64(Object []i) {
double p = Double.NaN;
if (i[8] == null) {
p = 1;
} else if (((Double) i[8]).doubleValue() <= 15.0) {
p = 1;
} else if (((Double) i[8]).doubleValue() > 15.0) {
p = 0;
}
return p;
}
static double N26b9a9b35(Object []i) {
double p = Double.NaN;
if (i[7] == null) {
p = 0;
} else if (((Double) i[7]).doubleValue() <= 72.0) {
p = 0;
} else if (((Double) i[7]).doubleValue() > 72.0) {
p = WekaClassifier.N6a1d217c6(i);
}
return p;
}
static double N6a1d217c6(Object []i) {
double p = Double.NaN;
if (i[4] == null) {
p = 0;
} else if (((Double) i[4]).doubleValue() <= 126.0) {
p = 0;
} else if (((Double) i[4]).doubleValue() > 126.0) {
p = 1;
}
return p;
}
static double N1c9737067(Object []i) {
double p = Double.NaN;
if (i[4] == null) {
p = 1;
} else if (((Double) i[4]).doubleValue() <= 499.0) {
p = 1;
} else if (((Double) i[4]).doubleValue() > 499.0) {
p = 0;
}
}

```

```
    return p;  
}  
}
```

## Conclusion

Decision Tree C4.5 and Random Forest are two popular classification algorithms used in Machine Learning that builds decision trees and make predictions on new data. We saw in the datasets that both algorithms yielded similar high 10-fold cross validation accuracies, but depending on the dataset one algorithm performed higher than the other. Despite their similarities in tree building, the algorithms have small differences in their processes.

C4.5 works by focusing on the target variable that will yield the most information gain to recursively divide the data into smaller subsets. The main advantages to this method are being simple and easy to interpret by the user. However, one downside is the possible overflow of trees, thus requiring pruning.

On the other hand, Random Forest works to build multiple decision trees on randomly sampled subsets of the data and then combining the predictions. Unlike C4.5's process of recursively partitioning the data based off the highest information gain feature, this focuses on randomization to avoid overflow.

Between the two algorithms, Random Forest is more likely to handle larger, complex datasets where C4.5 may struggle with overflow and pruning. With this, Random Forest can lead to more accurate predictions because of its ability to handle noisy data. Nonetheless, C4.5 is still valuable due to its simplicity and interpretability, which can be advantageous in specific applications. In our datasets, we saw how depending on the criteria and complexity of the data, either classifier was able to predict accurate labels.