1. Bagging [Tree depth : 3   Total Trees/Bags : 5]

Accuracy of the model with Ensemble Type : bag, Depth : 3 and total Trees : 5 for file agaricuslepiota.test is **76.659000%**

%%%%%%%%%% Confusion Matrix   %%%%%%%%%%

A=0   B=1   <-------- predicted class

| 1597 | 496 | **A = 0** |
| 0 | 32 | **B = 1** |

Misclassification Rate   = 23.300000 %

True positive rate (TPR) = 100.000000 %

True Negative rate (TNR) = 76.300000 %

2. Bagging [Tree depth : 5   Total Trees/Bags : 5]

Accuracy of the model with Ensemble Type : bag , Depth : 5 and total Trees : 5 file agaricuslepiota.test is 76.659000%

%%%%%%%%%% Confusion Matrix   %%%%%%%%%%

A=0   B=1   <-------- predicted class

| 1597 | 496 | **A = 0** |
| 0 | 32 | **B = 1** |

Misclassification Rate   = 23.300000 %

True positive rate (TPR) = 100.000000 %

True Negative rate (TNR) = 76.300000 %

3. Bagging [Tree depth : 3   Total Trees/Bags : 10]

Accuracy of the model with Ensemble Type : bag, Depth : 3 and total Trees : 10 for file agaricuslepiota.test is 76.659000%

%%%%%%%%% Confusion Matrix   %%%%%%%%%

A=0   **B=1**   **<-------- predicted class**

1597   496   **A = 0**

0   32   **B = 1**

Misclassification Rate   = 23.300000 %

True positive rate (TPR) = 100.000000 %

True Negative rate (TNR) = 76.300000 %

4. Bagging [Tree depth : 5   Total Trees/Bags : 10]

Accuracy of the model with Ensemble Type : bag, Depth : 5 and total Trees : 10 for file agaricuslepiota.test is **76.659000%**

%%%%%%%%% Confusion Matrix   %%%%%%%%%

A=0   **B=1**   **<-------- predicted class**

1597   496   **A = 0**

0   32   **B = 1**

Misclassification Rate   = 23.300000 %

True positive rate (TPR) = 100.000000 %

True Negative rate (TNR) = 76.300000 %

5. Boosting [Tree depth : 1   Total Trees : 5]

Accuracy of the model with Ensemble Type : Boost, Depth : 1 and total Trees : 5 for file agaricuslepiota.test is 76.659000%

%%%%%%%%%% Confusion Matrix   %%%%%%%%%%

A=0	B=1	<-------- predicted class
1597	496	**A = 0**
0	32	**B = 1**

Misclassification Rate   = 23.300000 %

True positive rate (TPR) = 100.000000 %

True Negative rate (TNR) = 76.300000 %

6. Boosting [Tree depth : 2   Total Trees : 5]

Accuracy of the model with Ensemble Type : Boost, Depth : 2 and total Trees : 5 for file agaricuslepiotatest1.csv is 98.118000%

%%%%%%%%%% Confusion Matrix   %%%%%%%%%%

A=0	B=1	<-------- predicted class
2085	8	**A = 0**
32	0	**B = 1**

Misclassification Rate   = 1.900000 %

True positive rate (TPR)   = 0.000000 %

True Negative rate (TNR) = 99.600000 %

7. Boosting [Tree depth : 1   Total Trees : 10]

Accuracy of the model with Ensemble Type : Boost, Depth : 1 and total Trees : 10 for file agaricuslepiotatest1.csv is **76.659000%**

%%%%%%%%% Confusion Matrix   %%%%%%%%%

A=0   **B=1**   **<-------- predicted class**

1597   496   **A = 0**

0   32   **B = 1**

Misclassification Rate   = 23.300000 %

True positive rate (TPR) = 100.000000 %

True Negative rate (TNR) = 76.300000 %

8. Boosting [Tree depth : 2   Total Trees : 10]

Accuracy of the model with Ensemble Type : Boost, Depth 2 and total Trees : 10 for file agaricuslepiotatest1.csv is **98.118000%**

%%%%%%%%% Confusion Matrix   %%%%%%%%%

A=0   **B=1**   **<-------- predicted class**

2085   8   **A = 0**

  32   0   **B = 1**

Misclassification Rate   = 1.900000 %

True positive rate (TPR) = 0.000000 %

True Negative rate (TNR) = 99.600000 %

WEKA Output

=== Run information ===

Scheme: weka.classifiers.misc.InputMappedClassifier -I -trim -W weka.classifiers.meta.Bagging -- -P 100 -S 1 -num-slots 1 -I 10 -W weka.classifiers.trees.REPTree -- -M 2 -V 0.001 -N 3 -S 1 -L -1 -I 0.0

Relation: agaricuslepoitatrain-weka.filters.unsupervised.attribute.NumericToNominal-Rfirst-last

Instances: 6000

Attributes: 126

        [list of attributes omitted]

Test mode: user supplied test set: size unknown (reading incrementally)

=== Classifier model (full training set) ===

InputMappedClassifier:

Bagging with 10 iterations and base learner

weka.classifiers.trees.REPTree -M 2 -V 0.001 -N 3 -S 1 -L -1 -I 0.0

Attribute mappings:

Model attributes	Incoming attributes
---	---------------
(nominal) cap-shape-bell	--> 1 (nominal) cap-shape-bell
(nominal) cap-shape-conical	--> 2 (nominal) cap-shape-conical
(nominal) cap-shape-convex	--> 3 (nominal) cap-shape-convex
(nominal) cap-shape-flat	--> 4 (nominal) cap-shape-flat
(nominal) cap-shape-knobbed	--> 5 (nominal) cap-shape-knobbed
(nominal) cap-shape-sunken	--> 6 (nominal) cap-shape-sunken
(nominal) cap-surface-fibrous	--> 7 (nominal) cap-surface-fibrous
(nominal) cap-surface-grooves	--> 8 (nominal) cap-surface-grooves
(nominal) cap-surface-scaly	--> 9 (nominal) cap-surface-scaly
(nominal) cap-surface-smooth	--> 10 (nominal) cap-surface-smooth
(nominal) cap-color-brown	--> 11 (nominal) cap-color-brown
(nominal) cap-color-buff	--> 12 (nominal) cap-color-buff
(nominal) cap-color-cinnamon	--> 13 (nominal) cap-color-cinnamon
(nominal) cap-color-gray	--> 14 (nominal) cap-color-gray
(nominal) cap-color-green	--> 15 (nominal) cap-color-green
(nominal) cap-color-pink	--> 16 (nominal) cap-color-pink
(nominal) cap-color-purple	--> 17 (nominal) cap-color-purple
(nominal) cap-color-red	--> 18 (nominal) cap-color-red
(nominal) cap-color-white	--> 19 (nominal) cap-color-white
(nominal) cap-color-yellow	--> 20 (nominal) cap-color-yellow
(nominal) bruises?-bruises	--> 21 (nominal) bruises?-bruises
(nominal) odor-almond	--> 22 (nominal) odor-almond
(nominal) odor-anise	--> 23 (nominal) odor-anise
(nominal) odor-creosote	--> 24 (nominal) odor-creosote
(nominal) odor-fishy	--> 25 (nominal) odor-fishy
(nominal) odor-foul	--> 26 (nominal) odor-foul
(nominal) odor-musty	--> 27 (nominal) odor-musty

(nominal) odor-none   --> 28 (nominal) odor-none

(nominal) odor-pungent   --> 29 (nominal) odor-pungent

(nominal) odor-spicy   --> 30 (nominal) odor-spicy

(nominal) gill-attachment-attached   --> 31 (nominal) gill-attachment-attached

(nominal) gill-attachment-descending   --> 32 (nominal) gill-attachment-descending

(nominal) gill-attachment-free   --> 33 (nominal) gill-attachment-free

(nominal) gill-attachment-notched   --> 34 (nominal) gill-attachment-notched

(nominal) gill-spacing-close   --> 35 (nominal) gill-spacing-close

(nominal) gill-spacing-crowded   --> 36 (nominal) gill-spacing-crowded

(nominal) gill-spacing-distant   --> 37 (nominal) gill-spacing-distant

(nominal) gill-size-broad   --> 38 (nominal) gill-size-broad

(nominal) gill-size-narrow   --> 39 (nominal) gill-size-narrow

(nominal) gill-color-black   --> 40 (nominal) gill-color-black

(nominal) gill-color-brown   --> 41 (nominal) gill-color-brown

(nominal) gill-color-buff   --> 42 (nominal) gill-color-buff

(nominal) gill-color-chocolate   --> 43 (nominal) gill-color-chocolate

(nominal) gill-color-gray   --> 44 (nominal) gill-color-gray

(nominal) gill-color-green   --> 45 (nominal) gill-color-green

(nominal) gill-color-orange   --> 46 (nominal) gill-color-orange

(nominal) gill-color-pink   --> 47 (nominal) gill-color-pink

(nominal) gill-color-purple   --> 48 (nominal) gill-color-purple

(nominal) gill-color-red   --> 49 (nominal) gill-color-red

(nominal) gill-color-white   --> 50 (nominal) gill-color-white

(nominal) gill-color-yellow   --> 51 (nominal) gill-color-yellow

(nominal) stalk-shape-enlarging   --> 52 (nominal) stalk-shape-enlarging

(nominal) stalk-shape-tapering   --> 53 (nominal) stalk-shape-tapering

(nominal) stalk-root-bulbous   --> 54 (nominal) stalk-root-bulbous

(nominal) stalk-root-club   --> 55 (nominal) stalk-root-club

(nominal) stalk-root-cup   --> 56 (nominal) stalk-root-cup

(nominal) stalk-root-equal   --> 57 (nominal) stalk-root-equal

(nominal) stalk-root-rhizomorphs   --> 58 (nominal) stalk-root-rhizomorphs

(nominal) stalk-root-rooted   --> 59 (nominal) stalk-root-rooted

(nominal) stalk-root-missing   --> 60 (nominal) stalk-root-missing

(nominal) stalk-surface-above-ring-fibrous   --> 61 (nominal) stalk-surface-above-ring-fibrous

(nominal) stalk-surface-above-ring-scaly   --> 62 (nominal) stalk-surface-above-ring-scaly

(nominal) stalk-surface-above-ring-silky   --> 63 (nominal) stalk-surface-above-ring-silky

(nominal) stalk-surface-above-ring-smooth   --> 64 (nominal) stalk-surface-above-ring-smooth

(nominal) stalk-surface-below-ring-fibrous   --> 65 (nominal) stalk-surface-below-ring-fibrous

(nominal) stalk-surface-below-ring-scaly   --> 66 (nominal) stalk-surface-below-ring-scaly

(nominal) stalk-surface-below-ring-silky   --> 67 (nominal) stalk-surface-below-ring-silky

(nominal) stalk-surface-below-ring-smooth   --> 68 (nominal) stalk-surface-below-ring-smooth

(nominal) stalk-color-above-ring-brown   --> 69 (nominal) stalk-color-above-ring-brown

(nominal) stalk-color-above-ring-buff   --> 70 (nominal) stalk-color-above-ring-buff

(nominal) stalk-color-above-ring-cinnamon   --> 71 (nominal) stalk-color-above-ring-cinnamon

(nominal) stalk-color-above-ring-gray   --> 72 (nominal) stalk-color-above-ring-gray

(nominal) stalk-color-above-ring-orange   --> 73 (nominal) stalk-color-above-ring-orange

(nominal) stalk-color-above-ring-pink   --> 74 (nominal) stalk-color-above-ring-pink

(nominal) stalk-color-above-ring-red   --> 75 (nominal) stalk-color-above-ring-red

(nominal) stalk-color-above-ring-white   --> 76 (nominal) stalk-color-above-ring-white

(nominal) stalk-color-above-ring-yellow   --> 77 (nominal) stalk-color-above-ring-yellow

(nominal) stalk-color-below-ring-brown   --> 78 (nominal) stalk-color-below-ring-brown

(nominal) stalk-color-below-ring-buff   --> 79 (nominal) stalk-color-below-ring-buff

(nominal) stalk-color-below-ring-cinnamon   --> 80 (nominal) stalk-color-below-ring-cinnamon

(nominal) stalk-color-below-ring-gray   --> 81 (nominal) stalk-color-below-ring-gray

(nominal) stalk-color-below-ring-orange   --> 82 (nominal) stalk-color-below-ring-orange

(nominal) stalk-color-below-ring-pink   --> 83 (nominal) stalk-color-below-ring-pink

(nominal) stalk-color-below-ring-red   --> 84 (nominal) stalk-color-below-ring-red

(nominal) stalk-color-below-ring-white   --> 85 (nominal) stalk-color-below-ring-white

(nominal) stalk-color-below-ring-yellow   --> 86 (nominal) stalk-color-below-ring-yellow

(nominal) veil-type-partial   --> 87 (nominal) veil-type-partial

(nominal) veil-type-universal   --> 88 (nominal) veil-type-universal

(nominal) veil-color-brown   --> 89 (nominal) veil-color-brown

(nominal) veil-color-orange   --> 90 (nominal) veil-color-orange

(nominal) veil-color-white   --> 91 (nominal) veil-color-white

(nominal) veil-color-yellow   --> 92 (nominal) veil-color-yellow

(nominal) ring-number-none   --> 93 (nominal) ring-number-none

(nominal) ring-number-one   --> 94 (nominal) ring-number-one

(nominal) ring-number-two   --> 95 (nominal) ring-number-two

(nominal) ring-type-cobwebby   --> 96 (nominal) ring-type-cobwebby

(nominal) ring-type-evanescent   --> 97 (nominal) ring-type-evanescent

(nominal) ring-type-flaring   --> 98 (nominal) ring-type-flaring

(nominal) ring-type-large   --> 99 (nominal) ring-type-large

(nominal) ring-type-none   --> 100 (nominal) ring-type-none

(nominal) ring-type-pendant   --> 101 (nominal) ring-type-pendant

(nominal) ring-type-sheathing   --> 102 (nominal) ring-type-sheathing

(nominal) ring-type-zone   --> 103 (nominal) ring-type-zone

(nominal) spore-print-color-black   --> 104 (nominal) spore-print-color-black

(nominal) spore-print-color-brown   --> 105 (nominal) spore-print-color-brown

(nominal) spore-print-color-buff   --> 106 (nominal) spore-print-color-buff

(nominal) spore-print-color-chocolate   --> 107 (nominal) spore-print-color-chocolate

(nominal) spore-print-color-green   --> 108 (nominal) spore-print-color-green

(nominal) spore-print-color-orange   --> 109 (nominal) spore-print-color-orange

(nominal) spore-print-color-purple   --> 110 (nominal) spore-print-color-purple

(nominal) spore-print-color-white   --> 111 (nominal) spore-print-color-white

(nominal) spore-print-color-yellow   --> 112 (nominal) spore-print-color-yellow

(nominal) population-abundant   --> 113 (nominal) population-abundant

(nominal) population-clustered   --> 114 (nominal) population-clustered

(nominal) population-numerous   --> 115 (nominal) population-numerous

(nominal) population-scattered   --> 116 (nominal) population-scattered

(nominal) population-several   --> 117 (nominal) population-several

(nominal) population-solitary   --> 118 (nominal) population-solitary

(nominal) habitat-grasses   --> 119 (nominal) habitat-grasses

(nominal) habitat-leaves   --> 120 (nominal) habitat-leaves

(nominal) habitat-meadows   --> 121 (nominal) habitat-meadows

(nominal) habitat-paths   --> 122 (nominal) habitat-paths

(nominal) habitat-urban   --> 123 (nominal) habitat-urban

(nominal) habitat-waste   --> 124 (nominal) habitat-waste

(nominal) habitat-woods   --> 125 (nominal) habitat-woods

(nominal) poisonous   --> 126 (nominal) poisonous

Time taken to build model: 1.27 seconds

=== Evaluation on test set ===

Time taken to test model on supplied test set: 0.27 seconds

=== Summary ===

Correctly Classified Instances   1593   74.9647 %

Incorrectly Classified Instances   532   25.0353 %

Kappa statistic   0.0812

Mean absolute error   0.2504

Root mean squared error   0.5004

Relative absolute error   45.0609 %

Root relative squared error   90.0298 %

Total Number of Instances   2125

=== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	0.746	0.000	1.000	0.746	0.854	0.206	0.873	0.996	0
	1.000	0.254	0.057	1.000	0.107	0.206	0.873	0.057	1
Weighted Avg.	0.750	0.004	0.986	0.750	0.843	0.206	0.873	0.982	

=== Confusion Matrix ===

```
   a    b   <-- classified as
 1561  532 |   a = 0
   0   32 |   b = 1
```

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
|||||||||||||||||||||||||||||||||||||||||||||

=== Run information ===

Scheme: weka.classifiers.misc.InputMappedClassifier -I -trim -W weka.classifiers.meta.AdaBoostM1 - - -P 100 -S 1 -I 10 -W weka.classifiers.trees.DecisionStump

Relation: agaricuslepoitatrain-weka.filters.unsupervised.attribute.NumericToNominal-Rfirst-last

Instances: 6000

Attributes: 126

        [list of attributes omitted]

Test mode: user supplied test set: size unknown (reading incrementally)

=== Classifier model (full training set) ===

InputMappedClassifier:

AdaBoostM1: Base classifiers and their weights:

Decision Stump

Classifications

ring-type-pendant = 0 : 0

ring-type-pendant != 0 : 1

ring-type-pendant is missing : 1

Class distributions

ring-type-pendant = 0

0   1

0.925   0.075

ring-type-pendant != 0

0   1

0.08372093023255814 0.9162790697674419

ring-type-pendant is missing

0   1

0.44266666666666665 0.5573333333333333

Weight: 2.44

Decision Stump

Classifications

gill-size-broad = 0 : 0

gill-size-broad != 0 : 1

gill-size-broad is missing : 0

Class distributions

gill-size-broad = 0

0	1
0.9094567404426556	0.09054325955734452

gill-size-broad != 0

0	1
0.2921857304643336	0.7078142695356664

gill-size-broad is missing

0	1
0.5144927536231906	0.4855072463768095

Weight: 1.27

Decision Stump

Classifications

stalk-surface-above-ring-smooth = 0 : 0

stalk-surface-above-ring-smooth != 0 : 1

stalk-surface-above-ring-smooth is missing : 0

Class distributions

stalk-surface-above-ring-smooth = 0

0   1

0.9770242774274274   0.022975722572572688

stalk-surface-above-ring-smooth != 0

0   1

0.4404126362631463   0.5595873637368537

stalk-surface-above-ring-smooth is missing

0   1

0.6355847283892667   0.3644152716107333

Weight: 0.9

Decision Stump

Classifications

ring-number-one = 0 : 1

ring-number-one != 0 : 0

ring-number-one is missing : 0

Class distributions

ring-number-one = 0

0   1

0.0   1.0

ring-number-one != 0

0   1

0.8106594465149118   0.18934055348508813

ring-number-one is missing

0   1

0.7352744190616733   0.26472558093832665

Weight: 1.57

Decision Stump

Classifications

ring-type-pendant = 0 : 0

ring-type-pendant != 0 : 1

ring-type-pendant is missing : 1

Class distributions

ring-type-pendant = 0

0   1

0.8170812627253697   0.18291873727463026

ring-type-pendant != 0

0   1

0.28603508029924923 0.7139649197007508

ring-type-pendant is missing

0   1

0.4438633514685619   0.5561366485314382

Weight: 1.07

Decision Stump

Classifications

odor-creosote = 0 : 1
odor-creosote != 0 : 0
odor-creosote is missing : 0

Class distributions

odor-creosote = 0

0	1
0.3989205732188056	0.6010794267811944

odor-creosote != 0

0	1
1.0	0.0

odor-creosote is missing

0	1
0.5566303136271901	0.4433696863728099

Weight: 0.87

Decision Stump

Classifications

gill-color-white = 1 : 1

gill-color-white != 1 : 0

gill-color-white is missing : 0

Class distributions

gill-color-white = 1

0	1
0.037798573617570226	0.9622014263824298

gill-color-white != 1

0	1
0.7640127895261258	0.23598721047387422

gill-color-white is missing

0	1
0.6858863409008307	0.3141136590991693

Weight: 1.3

Decision Stump

Classifications

cap-surface-fibrous = 1 : 0

cap-surface-fibrous != 1 : 1

cap-surface-fibrous is missing : 1

Class distributions

cap-surface-fibrous = 1

0   1

0.7237867852944497   0.2762132147055504

cap-surface-fibrous != 1

0   1

0.2579893866898242   0.7420106133101758

cap-surface-fibrous is missing

0   1

0.4435669500381783   0.5564330499618216

Weight: 1.02

Decision Stump

Classifications

odor-creosote = 0 : 1

odor-creosote != 0 : 0

odor-creosote is missing : 1

Class distributions

odor-creosote = 0

0   1

0.39729600797747255 0.6027039920225273

odor-creosote != 0

0   1

1.0   0.0

odor-creosote is missing

0   1

0.48879414646600694 0.5112058535339932

Weight: 0.68

Decision Stump

Classifications

ring-type-pendant = 0 : 0

ring-type-pendant != 0 : 1

ring-type-pendant is missing : 0

Class distributions

ring-type-pendant = 0

0   1

0.8614166348952604   0.13858336510473948

ring-type-pendant != 0

0   1

0.43997470472348754 0.5600252952765125

ring-type-pendant is missing

0   1

0.6144860294037353   0.38551397059626474

Weight: 0.78

Number of performed Iterations: 10

Attribute mappings:

Model attributes	Incoming attributes
---	---------------
(nominal) cap-shape-bell	--> 1 (nominal) cap-shape-bell
(nominal) cap-shape-conical	--> 2 (nominal) cap-shape-conical
(nominal) cap-shape-convex	--> 3 (nominal) cap-shape-convex
(nominal) cap-shape-flat	--> 4 (nominal) cap-shape-flat
(nominal) cap-shape-knobbed	--> 5 (nominal) cap-shape-knobbed
(nominal) cap-shape-sunken	--> 6 (nominal) cap-shape-sunken
(nominal) cap-surface-fibrous	--> 7 (nominal) cap-surface-fibrous
(nominal) cap-surface-grooves	--> 8 (nominal) cap-surface-grooves
(nominal) cap-surface-scaly	--> 9 (nominal) cap-surface-scaly
(nominal) cap-surface-smooth	--> 10 (nominal) cap-surface-smooth
(nominal) cap-color-brown	--> 11 (nominal) cap-color-brown
(nominal) cap-color-buff	--> 12 (nominal) cap-color-buff
(nominal) cap-color-cinnamon	--> 13 (nominal) cap-color-cinnamon
(nominal) cap-color-gray	--> 14 (nominal) cap-color-gray
(nominal) cap-color-green	--> 15 (nominal) cap-color-green
(nominal) cap-color-pink	--> 16 (nominal) cap-color-pink
(nominal) cap-color-purple	--> 17 (nominal) cap-color-purple
(nominal) cap-color-red	--> 18 (nominal) cap-color-red
(nominal) cap-color-white	--> 19 (nominal) cap-color-white
(nominal) cap-color-yellow	--> 20 (nominal) cap-color-yellow

(nominal) bruises?-bruises   --> 21 (nominal) bruises?-bruises

(nominal) odor-almond   --> 22 (nominal) odor-almond

(nominal) odor-anise   --> 23 (nominal) odor-anise

(nominal) odor-creosote   --> 24 (nominal) odor-creosote

(nominal) odor-fishy   --> 25 (nominal) odor-fishy

(nominal) odor-foul   --> 26 (nominal) odor-foul

(nominal) odor-musty   --> 27 (nominal) odor-musty

(nominal) odor-none   --> 28 (nominal) odor-none

(nominal) odor-pungent   --> 29 (nominal) odor-pungent

(nominal) odor-spicy   --> 30 (nominal) odor-spicy

(nominal) gill-attachment-attached   --> 31 (nominal) gill-attachment-attached

(nominal) gill-attachment-descending   --> 32 (nominal) gill-attachment-descending

(nominal) gill-attachment-free   --> 33 (nominal) gill-attachment-free

(nominal) gill-attachment-notched   --> 34 (nominal) gill-attachment-notched

(nominal) gill-spacing-close   --> 35 (nominal) gill-spacing-close

(nominal) gill-spacing-crowded   --> 36 (nominal) gill-spacing-crowded

(nominal) gill-spacing-distant   --> 37 (nominal) gill-spacing-distant

(nominal) gill-size-broad   --> 38 (nominal) gill-size-broad

(nominal) gill-size-narrow   --> 39 (nominal) gill-size-narrow

(nominal) gill-color-black   --> 40 (nominal) gill-color-black

(nominal) gill-color-brown   --> 41 (nominal) gill-color-brown

(nominal) gill-color-buff   --> 42 (nominal) gill-color-buff

(nominal) gill-color-chocolate   --> 43 (nominal) gill-color-chocolate

(nominal) gill-color-gray   --> 44 (nominal) gill-color-gray

(nominal) gill-color-green   --> 45 (nominal) gill-color-green

(nominal) gill-color-orange   --> 46 (nominal) gill-color-orange

(nominal) gill-color-pink   --> 47 (nominal) gill-color-pink

(nominal) gill-color-purple   --> 48 (nominal) gill-color-purple

(nominal) gill-color-red   --> 49 (nominal) gill-color-red

(nominal) gill-color-white   --> 50 (nominal) gill-color-white

(nominal) gill-color-yellow   --> 51 (nominal) gill-color-yellow

(nominal) stalk-shape-enlarging   --> 52 (nominal) stalk-shape-enlarging

(nominal) stalk-shape-tapering   --> 53 (nominal) stalk-shape-tapering

(nominal) stalk-root-bulbous   --> 54 (nominal) stalk-root-bulbous

(nominal) stalk-root-club   --> 55 (nominal) stalk-root-club

(nominal) stalk-root-cup   --> 56 (nominal) stalk-root-cup

(nominal) stalk-root-equal   --> 57 (nominal) stalk-root-equal

(nominal) stalk-root-rhizomorphs   --> 58 (nominal) stalk-root-rhizomorphs

(nominal) stalk-root-rooted   --> 59 (nominal) stalk-root-rooted

(nominal) stalk-root-missing   --> 60 (nominal) stalk-root-missing

(nominal) stalk-surface-above-ring-fibrous   --> 61 (nominal) stalk-surface-above-ring-fibrous

(nominal) stalk-surface-above-ring-scaly   --> 62 (nominal) stalk-surface-above-ring-scaly

(nominal) stalk-surface-above-ring-silky   --> 63 (nominal) stalk-surface-above-ring-silky

(nominal) stalk-surface-above-ring-smooth   --> 64 (nominal) stalk-surface-above-ring-smooth

(nominal) stalk-surface-below-ring-fibrous   --> 65 (nominal) stalk-surface-below-ring-fibrous

(nominal) stalk-surface-below-ring-scaly   --> 66 (nominal) stalk-surface-below-ring-scaly

(nominal) stalk-surface-below-ring-silky   --> 67 (nominal) stalk-surface-below-ring-silky

(nominal) stalk-surface-below-ring-smooth   --> 68 (nominal) stalk-surface-below-ring-smooth

(nominal) stalk-color-above-ring-brown   --> 69 (nominal) stalk-color-above-ring-brown

(nominal) stalk-color-above-ring-buff   --> 70 (nominal) stalk-color-above-ring-buff

(nominal) stalk-color-above-ring-cinnamon   --> 71 (nominal) stalk-color-above-ring-cinnamon

(nominal) stalk-color-above-ring-gray   --> 72 (nominal) stalk-color-above-ring-gray

(nominal) stalk-color-above-ring-orange   --> 73 (nominal) stalk-color-above-ring-orange

(nominal) stalk-color-above-ring-pink   --> 74 (nominal) stalk-color-above-ring-pink

(nominal) stalk-color-above-ring-red   --> 75 (nominal) stalk-color-above-ring-red

(nominal) stalk-color-above-ring-white   --> 76 (nominal) stalk-color-above-ring-white

(nominal) stalk-color-above-ring-yellow   --> 77 (nominal) stalk-color-above-ring-yellow

(nominal) stalk-color-below-ring-brown   --> 78 (nominal) stalk-color-below-ring-brown

(nominal) stalk-color-below-ring-buff --> 79 (nominal) stalk-color-below-ring-buff

(nominal) stalk-color-below-ring-cinnamon --> 80 (nominal) stalk-color-below-ring-cinnamon

(nominal) stalk-color-below-ring-gray --> 81 (nominal) stalk-color-below-ring-gray

(nominal) stalk-color-below-ring-orange --> 82 (nominal) stalk-color-below-ring-orange

(nominal) stalk-color-below-ring-pink --> 83 (nominal) stalk-color-below-ring-pink

(nominal) stalk-color-below-ring-red --> 84 (nominal) stalk-color-below-ring-red

(nominal) stalk-color-below-ring-white --> 85 (nominal) stalk-color-below-ring-white

(nominal) stalk-color-below-ring-yellow --> 86 (nominal) stalk-color-below-ring-yellow

(nominal) veil-type-partial --> 87 (nominal) veil-type-partial

(nominal) veil-type-universal --> 88 (nominal) veil-type-universal

(nominal) veil-color-brown --> 89 (nominal) veil-color-brown

(nominal) veil-color-orange --> 90 (nominal) veil-color-orange

(nominal) veil-color-white --> 91 (nominal) veil-color-white

(nominal) veil-color-yellow --> 92 (nominal) veil-color-yellow

(nominal) ring-number-none --> 93 (nominal) ring-number-none

(nominal) ring-number-one --> 94 (nominal) ring-number-one

(nominal) ring-number-two --> 95 (nominal) ring-number-two

(nominal) ring-type-cobwebby --> 96 (nominal) ring-type-cobwebby

(nominal) ring-type-evanescent --> 97 (nominal) ring-type-evanescent

(nominal) ring-type-flaring --> 98 (nominal) ring-type-flaring

(nominal) ring-type-large --> 99 (nominal) ring-type-large

(nominal) ring-type-none --> 100 (nominal) ring-type-none

(nominal) ring-type-pendant --> 101 (nominal) ring-type-pendant

(nominal) ring-type-sheathing --> 102 (nominal) ring-type-sheathing

(nominal) ring-type-zone --> 103 (nominal) ring-type-zone

(nominal) spore-print-color-black --> 104 (nominal) spore-print-color-black

(nominal) spore-print-color-brown --> 105 (nominal) spore-print-color-brown

(nominal) spore-print-color-buff --> 106 (nominal) spore-print-color-buff

(nominal) spore-print-color-chocolate --> 107 (nominal) spore-print-color-chocolate

(nominal) spore-print-color-green   --> 108 (nominal) spore-print-color-green

(nominal) spore-print-color-orange   --> 109 (nominal) spore-print-color-orange

(nominal) spore-print-color-purple   --> 110 (nominal) spore-print-color-purple

(nominal) spore-print-color-white   --> 111 (nominal) spore-print-color-white

(nominal) spore-print-color-yellow   --> 112 (nominal) spore-print-color-yellow

(nominal) population-abundant   --> 113 (nominal) population-abundant

(nominal) population-clustered   --> 114 (nominal) population-clustered

(nominal) population-numerous   --> 115 (nominal) population-numerous

(nominal) population-scattered   --> 116 (nominal) population-scattered

(nominal) population-several   --> 117 (nominal) population-several

(nominal) population-solitary   --> 118 (nominal) population-solitary

(nominal) habitat-grasses   --> 119 (nominal) habitat-grasses

(nominal) habitat-leaves   --> 120 (nominal) habitat-leaves

(nominal) habitat-meadows   --> 121 (nominal) habitat-meadows

(nominal) habitat-paths   --> 122 (nominal) habitat-paths

(nominal) habitat-urban   --> 123 (nominal) habitat-urban

(nominal) habitat-waste   --> 124 (nominal) habitat-waste

(nominal) habitat-woods   --> 125 (nominal) habitat-woods

(nominal) poisonous   --> 126 (nominal) poisonous

Time taken to build model: 0.33 seconds

=== Evaluation on test set ===

Time taken to test model on supplied test set: 0.12 seconds

=== Summary ===

Correctly Classified Instances   1611   75.8118 %

Incorrectly Classified Instances   514   24.1882 %

Kappa statistic   0.0847

Mean absolute error   0.2452

Root mean squared error   0.4889

Relative absolute error   44.1395 %

Root relative squared error   87.9716 %

Total Number of Instances   2125

=== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	0.754	0.000	1.000	0.754	0.860	0.210	0.994	1.000	0
	1.000	0.246	0.059	1.000	0.111	0.210	0.994	0.571	1
Weighted Avg.	0.758	0.004	0.986	0.758	0.849	0.210	0.994	0.993	

=== Confusion Matrix ===

   a   b   <-- classified as
 1579 514 | a = 0
   0   32 | b = 1

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