

=== Run information ===

Scheme: weka.classifiers.trees.J48 -C 0.25 -M 2

Relation: Master_weka

Instances: 83075

Attributes: 3

LightValue

TempVal

Classifier

Test mode: 10-fold cross-validation

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

J48 pruned tree

LightValue <= 1010

| LightValue <= 766

| | LightValue <= 152: off (16974.0)

| | LightValue > 152: on (31.0)

| LightValue > 766: off (17321.0/44.0)

LightValue > 1010

| LightValue <= 2207

| | LightValue <= 2082

| | | LightValue <= 2002

| | | | LightValue <= 1986: on (8338.0/2.0)

| | | | LightValue > 1986

| | | | | TempVal <= 44.96: on (2743.0)

| | | | | TempVal > 44.96

| | | | | TempVal <= 53.81: off (91.0/1.0)
| | | | | TempVal > 53.81: on (342.0)
| | | LightValue > 2002
| | | | TempVal <= 54.39
| | | | | TempVal <= 48: on (1218.0)
| | | | | TempVal > 48
| | | | | TempVal <= 53.81: off (1704.0/44.0)
| | | | | TempVal > 53.81
| | | | | | TempVal <= 54.24: off (11.0)
| | | | | | TempVal > 54.24: on (18.0/5.0)
| | | | TempVal > 54.39: on (4107.0/4.0)
| | LightValue > 2082
| | | TempVal <= 54.68
| | | | TempVal <= 49.6
| | | | | LightValue <= 2140
| | | | | TempVal <= 48.29: on (26.0/1.0)
| | | | | TempVal > 48.29: off (21.0/2.0)
| | | | | LightValue > 2140: on (99.0/2.0)
| | | | TempVal > 49.6
| | | | | TempVal <= 53.95
| | | | | TempVal <= 52.35
| | | | | | LightValue <= 2161: off (2321.0/99.0)
| | | | | | LightValue > 2161
| | | | | | | TempVal <= 50.61: on (8.0)
| | | | | | | TempVal > 50.61
| | | | | | | | LightValue <= 2173: off (20.0)
| | | | | | | | LightValue > 2173
| | | | | | | | | TempVal <= 51.77: on (7.0/1.0)
| | | | | | | | | TempVal > 51.77: off (2.0)

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| | | | | | TempVal > 52.35: off (3410.0/23.0)
| | | | | TempVal > 53.95
| | | | | | TempVal <= 54.24: off (108.0/15.0)
| | | | | | TempVal > 54.24
| | | | | | | LightValue <= 2115
| | | | | | | | LightValue <= 2103
| | | | | | | | | LightValue <= 2096: on (5.0)
| | | | | | | | | LightValue > 2096: off (3.0)
| | | | | | | | | LightValue > 2103: on (7.0/1.0)
| | | | | | | | LightValue > 2115: off (92.0/31.0)
| | | TempVal > 54.68: on (2041.0/47.0)
| LightValue > 2207: on (22007.0)

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Number of Leaves : 28

Size of the tree : 55

Time taken to build model: 0.42 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances	82719	99.5715 %
Incorrectly Classified Instances	356	0.4285 %
Kappa statistic	0.9914	
Mean absolute error	0.0079	
Root mean squared error	0.0638	
Relative absolute error	1.5705 %	

Root relative squared error 12.7622 %

Total Number of Instances 83075

=== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	0.998	0.007	0.993	0.998	0.996	0.991	0.999	0.999	off
	0.993	0.002	0.998	0.993	0.996	0.991	0.999	0.999	on
Weighted Avg.	0.996	0.004	0.996	0.996	0.996	0.991	0.999	0.999	

=== Confusion Matrix ===

a b <-- classified as

41808	74		a = off
282	40911		b = on