

=== Run information ===

Scheme: weka.classifiers.trees.M5P -M 4.0 -num-decimal-places 4

Relation: WeatherForecast

Instances: 1062

Attributes: 6

WindSpeedKmph

WindDirection360

RelativeHumidityPercent

AmosphericPressureMb

DewPointCelcius

TemperatureCelcius

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

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

M5 pruned model tree:

(using smoothed linear models)

RelativeHumidityPercent <= 46.5 :

| DewPointCelcius <= 4.5 :

| | RelativeHumidityPercent <= 29.5 :

| | | RelativeHumidityPercent <= 21.5 : LM1 (54/3.956%)

| | | RelativeHumidityPercent > 21.5 : LM2 (67/1.93%)

| | RelativeHumidityPercent > 29.5 : LM3 (99/1.728%)

| DewPointCelcius > 4.5 :

| | RelativeHumidityPercent <= 31.5 :

| | | RelativeHumidityPercent <= 22.5 : LM4 (50/3.004%)

| | | RelativeHumidityPercent > 22.5 : LM5 (136/2.152%)

| | RelativeHumidityPercent > 31.5 :

| | | DewPointCelcius <= 9.5 :

| | | | RelativeHumidityPercent <= 39.5 : LM6 (48/1.358%)

| | | | RelativeHumidityPercent > 39.5 : LM7 (35/1.011%)

| | | DewPointCelcius > 9.5 : LM8 (74/1.354%)

RelativeHumidityPercent > 46.5 :

| DewPointCelcius <= 4.5 :

| | DewPointCelcius <= 0.5 :

| | | RelativeHumidityPercent <= 62 : LM9 (41/0.865%)

| | | RelativeHumidityPercent > 62 : LM10 (103/1.294%)

| | DewPointCelcius > 0.5 :

| | | RelativeHumidityPercent <= 64 :

| | | | RelativeHumidityPercent <= 56.5 : LM11 (35/0.844%)

| | | | RelativeHumidityPercent > 56.5 : LM12 (20/0%)

| | | RelativeHumidityPercent > 64 : LM13 (93/0.944%)

| DewPointCelcius > 4.5 :

| | DewPointCelcius <= 9.5 :

| | | RelativeHumidityPercent <= 74 :

| | | | RelativeHumidityPercent <= 57.5 : LM14 (41/0.937%)

| | | | RelativeHumidityPercent > 57.5 : LM15 (32/0.501%)

| | | RelativeHumidityPercent > 74 : LM16 (56/0.623%)

| | DewPointCelcius > 9.5 :

| | | RelativeHumidityPercent <= 59 : LM17 (42/0.883%)

| | | RelativeHumidityPercent > 59 :

| | | | RelativeHumidityPercent <= 70.5 :

| | | | | DewPointCelcius <= 13.5 : LM18 (15/0%)

| | | | | DewPointCelcius > 13.5 : LM19 (4/0%)

| | | | RelativeHumidityPercent > 70.5 : LM20 (17/0.594%)

LM num: 1

TemperatureCelcius =

-0.0005 * WindSpeedKmph

+ 0.0089 *

WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.03 *

WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0158 *

WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0327 *

WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.012 *

WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0137 *

WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0146 *

WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.011 *

WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.1319 *

WindDirection360=220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0503 * WindDirection360=50,10,320,330,350,140,360,20,40

- 0.0488 * WindDirection360=10,320,330,350,140,360,20,40

- 0.9391 * RelativeHumidityPercent

- 0.0081 * AtmosphericPressureMb

+ 1.1881 * DewPointCelcius

+ 51.3234

LM num: 2

TemperatureCelcius =

-0.0005 * WindSpeedKmph

+ 0.0089 *

WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.03 *

WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0158 *

WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0327 *

WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.012 *

WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0137 *

WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0146 *

WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.011 *

WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0503 * WindDirection360=50,10,320,330,350,140,360,20,40

- 0.0488 * WindDirection360=10,320,330,350,140,360,20,40

- 0.6416 * RelativeHumidityPercent

- 0.0081 * AtmosphericPressureMb

+ 1.1496 * DewPointCelcius

+ 45.3218

LM num: 3

TemperatureCelcius =

-0.0036 * WindSpeedKmph

+ 0.0089 *

WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.03 *

WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0158 *
 WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0327 *
 WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0673 *
 WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0137 *
 WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0146 *
 WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.011 *
 WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0503 * WindDirection360=50,10,320,330,350,140,360,20,40
 - 0.0488 * WindDirection360=10,320,330,350,140,360,20,40
 - 0.4513 * RelativeHumidityPercent
 - 0.009 * AmosphericPressureMb
 + 1.0962 * DewPointCelcius
 + 40.7135

LM num: 4

TemperatureCelcius =

-0.0005 * WindSpeedKmph
 + 0.0089 *
 WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0593 *
 WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0158 *
 WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0327 *

WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.012 *

WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0137 *

WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0146 *

WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0393 *

WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0125 * WindDirection360=30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0749 * WindDirection360=50,10,320,330,350,140,360,20,40

- 0.0763 * WindDirection360=10,320,330,350,140,360,20,40

- 0.8199 * RelativeHumidityPercent

- 0.0047 * AtmosphericPressureMb

+ 1.1692 * DewPointCelcius

+ 45.6283

LM num: 5

TemperatureCelcius =

-0.0005 * WindSpeedKmph

+ 0.0089 *

WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0426 *

WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0158 *

WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0327 *

WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.012 *

WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0137 *

WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0146 *

WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0232 *

WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0125 * WindDirection360=30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0749 * WindDirection360=50,10,320,330,350,140,360,20,40

- 0.0763 * WindDirection360=10,320,330,350,140,360,20,40

- 0.6205 * RelativeHumidityPercent

+ 0.0032 * AmosphericPressureMb

+ 1.1483 * DewPointCelcius

+ 33.2416

LM num: 6

TemperatureCelcius =

0.0008 * WindSpeedKmph

+ 0.0089 *

WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.03 *

WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0158 *

WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0327 *

WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.012 *

WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0137 *
 WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0146 *
 WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.011 *
 WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.023 * WindDirection360=30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0681 * WindDirection360=50,10,320,330,350,140,360,20,40
 - 0.0819 * WindDirection360=10,320,330,350,140,360,20,40
 - 0.4462 * RelativeHumidityPercent
 - 0.005 * AmosphericPressureMb
 + 1.1028 * DewPointCelcius
 + 36.4184

LM num: 7

TemperatureCelcius =

0.001 * WindSpeedKmph
 + 0.0089 *
 WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.03 *
 WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0158 *
 WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0327 *
 WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.012 *
 WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0137 *
 WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0146 *
 WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.011 *
 WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.023 * WindDirection360=30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0681 * WindDirection360=50,10,320,330,350,140,360,20,40
 - 0.0819 * WindDirection360=10,320,330,350,140,360,20,40
 - 0.4051 * RelativeHumidityPercent
 - 0.005 * AmosphericPressureMb
 + 1.083 * DewPointCelcius
 + 34.8999

LM num: 8

TemperatureCelcius =

-0 * WindSpeedKmph
 + 0.0089 *
 WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.03 *
 WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0158 *
 WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0327 *
 WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.012 *
 WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0137 *
 WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0146 *
 WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.011 *
 WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0881 *
 WindDirection360=220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0239 * WindDirection360=30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0155 * WindDirection360=50,10,320,330,350,140,360,20,40
 - 0.0819 * WindDirection360=10,320,330,350,140,360,20,40
 - 0.4385 * RelativeHumidityPercent
 - 0.005 * AmosphericPressureMb
 + 1.1015 * DewPointCelcius
 + 36.1531

LM num: 9

TemperatureCelcius =

-0.0006 * WindSpeedKmph
 + 0.0549 *
 WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,
 250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0047 *
 WindDirection360=100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,
 30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0338 *
 WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,5
 0,10,320,330,350,140,360,20,40
 - 0.0514 *
 WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320
 ,330,350,140,360,20,40
 + 0.0368 *
 WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330
 ,350,140,360,20,40
 - 0.0134 *
 WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350
 ,140,360,20,40
 + 0.0155 *
 WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140
 ,360,20,40
 - 0.0164 *
 WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0124 *
 WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0353 * WindDirection360=50,10,320,330,350,140,360,20,40
 - 0.0357 * WindDirection360=10,320,330,350,140,360,20,40
 - 0.2505 * RelativeHumidityPercent
 - 0.0043 * AmosphericPressureMb
 + 1.0705 * DewPointCelcius
 + 26.8291

LM num: 10

TemperatureCelcius =

-0.0006 * WindSpeedKmph
 + 0.01 *
 WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0047 *
 WindDirection360=100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0338 *
 WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0389 *
 WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0368 *
 WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0134 *
 WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0155 *
 WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0164 *
 WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0124 *
 WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0353 * WindDirection360=50,10,320,330,350,140,360,20,40
 - 0.0357 * WindDirection360=10,320,330,350,140,360,20,40
 - 0.1901 * RelativeHumidityPercent
 - 0.0033 * AmosphericPressureMb
 + 1.0353 * DewPointCelcius
 + 21.8162

LM num: 11

TemperatureCelcius =

-0.0006 * WindSpeedKmph
 + 0.01 *
 WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0047 *
 WindDirection360=100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0338 *
 WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0274 *
 WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0368 *
 WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0134 *
 WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0155 *
 WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0164 *
 WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0124 *
 WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0353 * WindDirection360=50,10,320,330,350,140,360,20,40
 - 0.0357 * WindDirection360=10,320,330,350,140,360,20,40

- 0.2703 * RelativeHumidityPercent
 - 0.0013 * AmosphericPressureMb
 + 1.0623 * DewPointCelcius
 + 24.8846

LM num: 12

TemperatureCelcius =

-0.0006 * WindSpeedKmph
 + 0.01 *
 WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0047 *
 WindDirection360=100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0338 *
 WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0274 *
 WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0368 *
 WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0134 *
 WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0155 *
 WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 - 0.0164 *
 WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0124 *
 WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40
 + 0.0353 * WindDirection360=50,10,320,330,350,140,360,20,40
 - 0.0357 * WindDirection360=10,320,330,350,140,360,20,40
 - 0.2498 * RelativeHumidityPercent
 - 0.0013 * AmosphericPressureMb

+ 1.0192 * DewPointCelcius

+ 23.8695

LM num: 13

TemperatureCelcius =

-0.0006 * WindSpeedKmph

+ 0.01 *

WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.041 *

WindDirection360=100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0338 *

WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0274 *

WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0368 *

WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0134 *

WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0155 *

WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0164 *

WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0124 *

WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0353 * WindDirection360=50,10,320,330,350,140,360,20,40

- 0.0357 * WindDirection360=10,320,330,350,140,360,20,40

- 0.1978 * RelativeHumidityPercent

- 0.0017 * AtmosphericPressureMb

+ 0.9877 * DewPointCelcius

+ 20.8887

LM num: 14

TemperatureCelcius =

$$\begin{aligned} & -0.0006 * \text{WindSpeedKmph} \\ & + 0.01 * \\ & \text{WindDirection360}=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200, \\ & 250,30,\text{Variable},50,10,320,330,350,140,360,20,40 \\ & - 0.0066 * \\ & \text{WindDirection360}=100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250, \\ & 30,\text{Variable},50,10,320,330,350,140,360,20,40 \\ & - 0.0338 * \\ & \text{WindDirection360}=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,\text{Variable},5 \\ & 0,10,320,330,350,140,360,20,40 \\ & - 0.0177 * \\ & \text{WindDirection360}=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,\text{Variable},50,10,320 \\ & ,330,350,140,360,20,40 \\ & + 0.0368 * \\ & \text{WindDirection360}=290,230,120,190,180,300,340,310,220,60,130,200,250,30,\text{Variable},50,10,320,330 \\ & ,350,140,360,20,40 \\ & - 0.0134 * \\ & \text{WindDirection360}=230,120,190,180,300,340,310,220,60,130,200,250,30,\text{Variable},50,10,320,330,350 \\ & ,140,360,20,40 \\ & + 0.0155 * \\ & \text{WindDirection360}=120,190,180,300,340,310,220,60,130,200,250,30,\text{Variable},50,10,320,330,350,140 \\ & ,360,20,40 \\ & - 0.0164 * \\ & \text{WindDirection360}=340,310,220,60,130,200,250,30,\text{Variable},50,10,320,330,350,140,360,20,40 \\ & + 0.0124 * \\ & \text{WindDirection360}=310,220,60,130,200,250,30,\text{Variable},50,10,320,330,350,140,360,20,40 \\ & + 0.0487 * \text{WindDirection360}=50,10,320,330,350,140,360,20,40 \\ & - 0.0357 * \text{WindDirection360}=10,320,330,350,140,360,20,40 \\ & - 0.2725 * \text{RelativeHumidityPercent} \\ & - 0.0011 * \text{AmosphericPressureMb} \\ & + 1.0605 * \text{DewPointCelcius} \\ & + 24.9354 \end{aligned}$$

LM num: 15

TemperatureCelcius =

-0.0006 * WindSpeedKmph

+ 0.01 *

WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0066 *

WindDirection360=100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0338 *

WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0177 *

WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0368 *

WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0134 *

WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0155 *

WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0164 *

WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0124 *

WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0777 * WindDirection360=50,10,320,330,350,140,360,20,40

- 0.0357 * WindDirection360=10,320,330,350,140,360,20,40

- 0.2441 * RelativeHumidityPercent

- 0.0011 * AmosphericPressureMb

+ 1.0368 * DewPointCelcius

+ 23.4438

LM num: 16

TemperatureCelcius =

-0.0006 * WindSpeedKmph

+ 0.01 *

WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0066 *

WindDirection360=100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0338 *

WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0177 *

WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0368 *

WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0134 *

WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0155 *

WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0164 *

WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0124 *

WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0487 * WindDirection360=50,10,320,330,350,140,360,20,40

- 0.0357 * WindDirection360=10,320,330,350,140,360,20,40

- 0.1997 * RelativeHumidityPercent

- 0.0009 * AtmosphericPressureMb

+ 1.0384 * DewPointCelcius

+ 19.9593

LM num: 17

TemperatureCelcius =

-0.0006 * WindSpeedKmph

+ 0.01 *

WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0066 *

WindDirection360=100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0338 *

WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0177 *

WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0368 *

WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0134 *

WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0155 *

WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0164 *

WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0124 *

WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0551 * WindDirection360=50,10,320,330,350,140,360,20,40

- 0.0357 * WindDirection360=10,320,330,350,140,360,20,40

- 0.2858 * RelativeHumidityPercent

- 0.0024 * AtmosphericPressureMb

+ 1.0607 * DewPointCelcius

+ 26.9287

LM num: 18

TemperatureCelcius =

-0.0006 * WindSpeedKmph

+ 0.01 *

WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0066 *

WindDirection360=100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0338 *

WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0177 *

WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0368 *

WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0134 *

WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0155 *

WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0164 *

WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0124 *

WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0551 * WindDirection360=50,10,320,330,350,140,360,20,40

- 0.0357 * WindDirection360=10,320,330,350,140,360,20,40

- 0.2419 * RelativeHumidityPercent

- 0.0024 * AtmosphericPressureMb

+ 1.0464 * DewPointCelcius

+ 24.515

LM num: 19

TemperatureCelcius =

-0.0006 * WindSpeedKmph

+ 0.01 *

WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0066 *

WindDirection360=100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0338 *

WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0177 *

WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0368 *

WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0134 *

WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0155 *

WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0164 *

WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0124 *

WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0551 * WindDirection360=50,10,320,330,350,140,360,20,40

- 0.0357 * WindDirection360=10,320,330,350,140,360,20,40

- 0.2266 * RelativeHumidityPercent

- 0.0024 * AtmosphericPressureMb

+ 0.9886 * DewPointCelcius

+ 24.4186

LM num: 20

TemperatureCelcius =

0.0009 * WindSpeedKmph

+ 0.01 *

WindDirection360=270,100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0066 *

WindDirection360=100,150,280,160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0338 *

WindDirection360=160,110,240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0177 *

WindDirection360=240,290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0368 *

WindDirection360=290,230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

- 0.0134 *

WindDirection360=230,120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0155 *

WindDirection360=120,190,180,300,340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0056 *

WindDirection360=340,310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0124 *

WindDirection360=310,220,60,130,200,250,30,Variable,50,10,320,330,350,140,360,20,40

+ 0.0551 * WindDirection360=50,10,320,330,350,140,360,20,40

- 0.0357 * WindDirection360=10,320,330,350,140,360,20,40

- 0.2258 * RelativeHumidityPercent

- 0.0024 * AtmosphericPressureMb

+ 1.051 * DewPointCelsius

+ 23.3022

Number of Rules : 20

Time taken to build model: 0.53 seconds

=== Predictions on test set ===

inst#	actual	predicted	error
1	14	14.008	0.008
2	17	17.025	0.025
3	28	27.915	-0.085
4	30	29.886	-0.114
5	21	21.078	0.078
6	18	17.829	-0.171
7	24	23.914	-0.086
8	9	9.039	0.039
9	19	19.008	0.008
10	8	8.071	0.071
11	30	29.495	-0.505
12	9	9.027	0.027
13	6	6.086	0.086
14	29	28.758	-0.242
15	4	3.758	-0.242
16	1	1.099	0.099
17	10	10.044	0.044
18	33	32.706	-0.294
19	6	5.934	-0.066
20	21	21.277	0.277
21	25	25.26	0.26
22	10	10.089	0.089
23	14	14.229	0.229
24	28	28.205	0.205
25	9	9.14	0.14
26	13	13.112	0.112
27	35	34.772	-0.228
28	19	18.865	-0.135
29	18	18.221	0.221

30	10	9.843	-0.157
31	7	7.062	0.062
32	4	4.223	0.223
33	25	25.035	0.035
34	4	3.904	-0.096
35	9	8.93	-0.07
36	-1	-0.96	0.04
37	29	28.928	-0.072
38	6	5.876	-0.124
39	23	22.993	-0.007
40	30	29.989	-0.011
41	6	6.076	0.076
42	19	19.415	0.415
43	14	13.966	-0.034
44	16	15.955	-0.045
45	19	19.076	0.076
46	17	17.04	0.04
47	18	17.882	-0.118
48	1	0.969	-0.031
49	16	16.478	0.478
50	2	1.899	-0.101
51	6	5.949	-0.051
52	30	30.154	0.154
53	15	15.133	0.133
54	10	10.031	0.031
55	13	13.009	0.009
56	3	2.95	-0.05
57	22	21.914	-0.086
58	27	27.144	0.144
59	7	6.75	-0.25
60	29	28.599	-0.401

61	30	29.799	-0.201
62	14	14.085	0.085
63	8	8.05	0.05
64	25	24.997	-0.003
65	28	27.582	-0.418
66	20	20.03	0.03
67	21	21.299	0.299
68	23	22.705	-0.295
69	21	21.126	0.126
70	30	30.297	0.297
71	0	0.177	0.177
72	28	28.226	0.226
73	29	28.749	-0.251
74	16	16.14	0.14
75	6	5.866	-0.134
76	15	14.502	-0.498
77	16	16.227	0.227
78	23	23.05	0.05
79	19	19.457	0.457
80	9	8.945	-0.055
81	10	9.831	-0.169
82	9	8.98	-0.02
83	19	18.602	-0.398
84	25	24.986	-0.014
85	20	20.489	0.489
86	16	15.962	-0.038
87	15	15.111	0.111
88	7	7.044	0.044
89	12	11.89	-0.11
90	27	27.005	0.005
91	22	22.162	0.162

92	22	21.883	-0.117
93	20	20.147	0.147
94	17	17.486	0.486
95	13	12.9	-0.1
96	18	18.058	0.058
97	17	17.468	0.468
98	4	3.734	-0.266
99	8	7.896	-0.104
100	29	29.242	0.242
101	9	9.056	0.056
102	31	31.178	0.178
103	36	35.69	-0.31
104	20	19.98	-0.02
105	19	19.133	0.133
106	14	14.226	0.226
107	30	29.984	-0.016
108	20	19.961	-0.039
109	28	28.204	0.204
110	15	15.224	0.224
111	23	23.031	0.031
112	3	2.764	-0.236
113	17	16.991	-0.009
114	18	17.844	-0.156
115	14	14.085	0.085
116	7	7.056	0.056
117	12	11.904	-0.096
118	18	18.064	0.064

=== Evaluation on test set ===

Time taken to test model on supplied test set: 0.13 seconds

=== Summary ===

Correlation coefficient	0.9998
Mean absolute error	0.1484
Root mean squared error	0.1961
Relative absolute error	2.0277 %
Root relative squared error	2.2162 %
Total Number of Instances	118