

1.

KNIME: In the confusion matrix as viewed in the Scorer node, low\_humidity\_day is:

1 / 1 point

☒

the target class label

☐

the predicted class label

☐

the only input variable that is categorical

✔

Correct

2.

KNIME: In the confusion matrix, what is the difference between low\_humidity\_day and Prediction(low\_humidity\_day)?

1 / 1 point

☒

low\_humidity\_day is the target class label, and Prediction(low\_humidity\_day) is the predicted class label

☐

ow\_humidity\_day is the predicted class label, and Prediction(low\_humidity\_day) is the target class label

☐

There is no difference. The two are the same

✔

Correct

3.

KNIME: In the Table View of the Interactive Table, each row is color-coded. Red specifies:

1 point

☐

that the target class label for the sample is humidity\_not\_low

☒

that the target class label for the sample is humidity\_low

☐

that the predicted class label for the sample is humidity\_not\_low

☐

that the predicted class label for the sample is humidity\_low

✘

Incorrect

The colors correspond to the low\_humidity\_day column.

4.

KNIME: To change the colors used to color-code each sample in the Table View of the Interactive Table node:

1 / 1 point

☒

change the color settings in the Color Manager node

☐

change the color settings in the Interactive Table dialog

☐

It is not possible to change these colors

✔

Correct

5.

KNIME: In the Table View of the Interactive Table, the values in RowID are not consecutive because:

1 / 1 point

☒

the RowID values are from the original dataset, and only the test samples are displayed here

☐

the samples are randomly ordered in the table

☐

only a few samples from the test set are randomly selected and displayed here

✔

Correct

For the next two questions, compute the accuracy of your decision tree as following:

1

accuracy = evaluator.evaluate(predictions)

6.

Spark: To get the error rate for the decision tree model, use the following code:

1 / 1 point

☒

1

print ("Error = %g " % (1.0 - accuracy))

☐

1

evaluator = MuticlassClassificationEvaluator(

2

labelCol="label",

3

predictionCol="prediction",

4

metricName="error")

☐

1

error = evaluator.evaluate(1 - predictions)

✔

Correct

7.

Spark: To print out the accuracy as a percentage, use the following code:

1 / 1 point

☒

1

print ("Accuracy = %.2g" % (accuracy \* 100))

☐

1

print ("Accuracy = %100g" % (accuracy))

☐

1

print ("Accuracy = %100.2g" % (accuracy))

✔

Correct

8.

Spark: In the last line of code in Step 4, the confusion matrix is printed out. If the “transpose()” is removed, the confusion matrix will be displayed as:

1 / 1 point

☒

1

array([[87., 19.],

2

[28., 84.]])

☐

1

array([[84., 28.],

2

[19., 87.]])

☐

1

array([[84., 87.],

2

[19., 28.]])

✔

Correct