**LAB EXPERIMENT NO.**

**13**

|  |  |
| --- | --- |
| TASK NO | OBJECTIVE |
| 01 | * Read the [wine.csv](https://files.knime.com/sites/default/files/wine.csv) dataset. * Train a Logistic Regression Model to predict whether a wine is red or white. * Use the Normalizer(PMML) node to z normalize all numerical columns. * Partition the dataset into a training set (80%) and a test set (20%) using the Partitioning node * with the stratified sampling option on the column “Income”. * Use the Logistic Regression Learner Node to train the model on the training set and * the Logistic Regression Predictor Node to apply the model to the test set. * Use the Scorer node to evaluate the accuracy of the model. * Plot ROC CURVE |

**LIST OF TASKS**

**Submitted On:**

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**Task No. 1:**

* Read the [wine.csv](https://files.knime.com/sites/default/files/wine.csv) dataset.
* Train a Logistic Regression Model to predict whether a wine is red or white.
* Use the Normalizer(PMML) node to z normalize all numerical columns.
* Partition the dataset into a training set (80%) and a test set (20%) using the Partitioning node
* with the stratified sampling option on the column “Income”.
* Use the Logistic Regression Learner Node to train the model on the training set and
* the Logistic Regression Predictor Node to apply the model to the test set.
* Use the Scorer node to evaluate the accuracy of the model.
* Plot ROC CURVE

**Solution:**

Diagram

Description automatically generated**Final Diagram:**

Graphical user interface, application, table

Description automatically generated**Configuration Of all Nodes:**

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generatedGraphical user interface, text, application, email

Description automatically generated

Graphical user interface, application

Description automatically generated

**Outputs of all Nodes:**

Chart, histogram

Description automatically generated

Table

Description automatically generatedA picture containing text, window

Description automatically generated

Table

Description automatically generatedTable

Description automatically generated

Shape

Description automatically generated with medium confidenceGraphical user interface, application

Description automatically generatedGraphical user interface, table

Description automatically generated