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**SENECA COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

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[**Academic Integrity Policy**](http://www.senecacollege.ca/about/policies/academic-integrity-policy.html). Seneca upholds a learning community that values academic integrity, honesty, fairness, trust, respect, responsibility and courage. These values enhance Seneca’s commitment to students by delivering high-quality education and teaching excellence, while supporting a positive learning environment. The AI policy is always in effect. Note **Sections** **2.3 and 2.4:**

***“…2.3*** *Should there be a suspected violation of this policy (e.g.…cheating, falsification, impersonation or plagiarism), the academic integrity sanctions will be applied according to the severity of the offence committed. Refer to* [*Appendix B*](http://www.senecacollege.ca/about/policies/academic-integrity-policy.html) *for the academic integrity sanctions.* ***2.4*** *Should a suspected violation of this policy be a result of, or in combination with, a suspected violation of Seneca’s Student Code of Conduct and/or another non-academic-related Seneca policy, the matter will be investigated and adjudicated through the process found in the Student Code of Conduct.”*

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| --- |
| ***TO BE COMPLETED BY STUDENT*** |
| *SUBJECT SECTION NUMBER (e.g. QNM223 AA): BAN210-ZBB* |
| *STUDENT NAME: LESLY PEARL CORTEZ* |
| *STUDENT NUMBER: 108161217* |
| *STUDENT SIGNATURE: LPC* |

**Final Project**

Steps:

1. Download Dataset 1: Breast Cancer Data Set

<https://archive.ics.uci.edu/ml/datasets/Breast+Cancer>

1. Launch SAS Enterprise Miner

Graphical user interface, text, website

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1. Create or Open a Project.

Graphical user interface, application, Word

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1. Create a Diagram.

A computer screen capture

Description automatically generated with medium confidence

1. From Sample, drag File import to the Diagram.
   1. Under Train > Import File ***breast-cancer.csv***

Graphical user interface, text, application, email

Description automatically generated

* 1. Set the following variable Level to Binary
  2. Right click on the File import node > Edit variable > set Class as “target”

Table

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* 1. Select Explore and examine the distribution.

*Exploring Binary variable*

Graphical user interface

Description automatically generated

*Exploring Interval variable*

Graphical user interface

Description automatically generated

1. From Explore, drag StatExplore to the Diagram.
   1. Run and see Results.

Chart, bar chart

Description automatically generated

1. From Explore, drag Graph Explore to the Diagram.
   1. Run and see Results.

Graphical user interface, table

Description automatically generated

1. From Explore, drag MultiPlot to the Diagram.
   1. Run and see Results.

Graphical user interface, application

Description automatically generated

1. From Sample, drag Data Partition to the Diagram.
   1. Split the data to training, validation, and test as follows:-

Table

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1. From Modify, drag Replacement node to the Diagram
   1. In Class Variables > Replacement Editor > select the Ellipsis.

Graphical user interface

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* 1. Enter \_MISSING\_ as the Replacement Value for observations with the value **?**
  2. Enter \_UKNOWN\_ as the Replacement Value for observation with the value in Date format.

A screenshot of a computer

Description automatically generated with medium confidence

* 1. Select Run and check results.

Graphical user interface, application, Word

Description automatically generated

1. From Modify, drag Impute node to the Diagram.
   1. Select Tree Surrogate as input method for Class and Interval Variables.

Table

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* 1. Set up the fields in the Indicator Variables as below.

Graphical user interface, application, table

Description automatically generated

* 1. Select Run and check results.

Graphical user interface, text, application

Description automatically generated

1. From Modify, drag Transform node to the Diagram.
   1. Right click on the Transform node > Edit variable > set Max. Normal in the Method column for the variable below.

Table

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* 1. Select Run and check results.

Graphical user interface, application, Word

Description automatically generated

* 1. In Exported Data > click ellipsis and the select TRAIN > Explore

Graphical user interface, text, application, email

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A picture containing text, screenshot, indoor

Description automatically generated

* 1. Select Plot > Histogram > Next and the variable **Replacement: deg-malig** > Finish

Chart, bar chart

Description automatically generated

1. From Utility, drag Start Group node to the Diagram.
   1. In General > Mode > set to Cross-Validation

Table

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* 1. Select Run and check results.

Graphical user interface, text, application, Word

Description automatically generated

1. From Model, drag Decision Tree to the Diagram.
   1. Under Splitting Rule, do not change the default.

Table

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* 1. Under Cross Validation > Perform Cross Validation > set to YES

Table

Description automatically generated

* 1. Run Decision Tree Node
  2. Once run completed successfully, check for the result.

Graphical user interface

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1. From Model, drag Regression node to the Diagram.
   1. Under Class Target, set Regression Type as “Linear Regression”
   2. Under Model Option, set Input Coding as “GLM”
   3. Under Model Selection, set Selection Model as “Stepwise”

Graphical user interface, table

Description automatically generated

* 1. Run Regression Node
  2. Once run completed successfully, check for the result

Graphical user interface, table

Description automatically generated

1. From Utility, drag Control Point in the Diagram
2. From Access, drag Model Comparison in the Diagram

Graphical user interface, application, Word

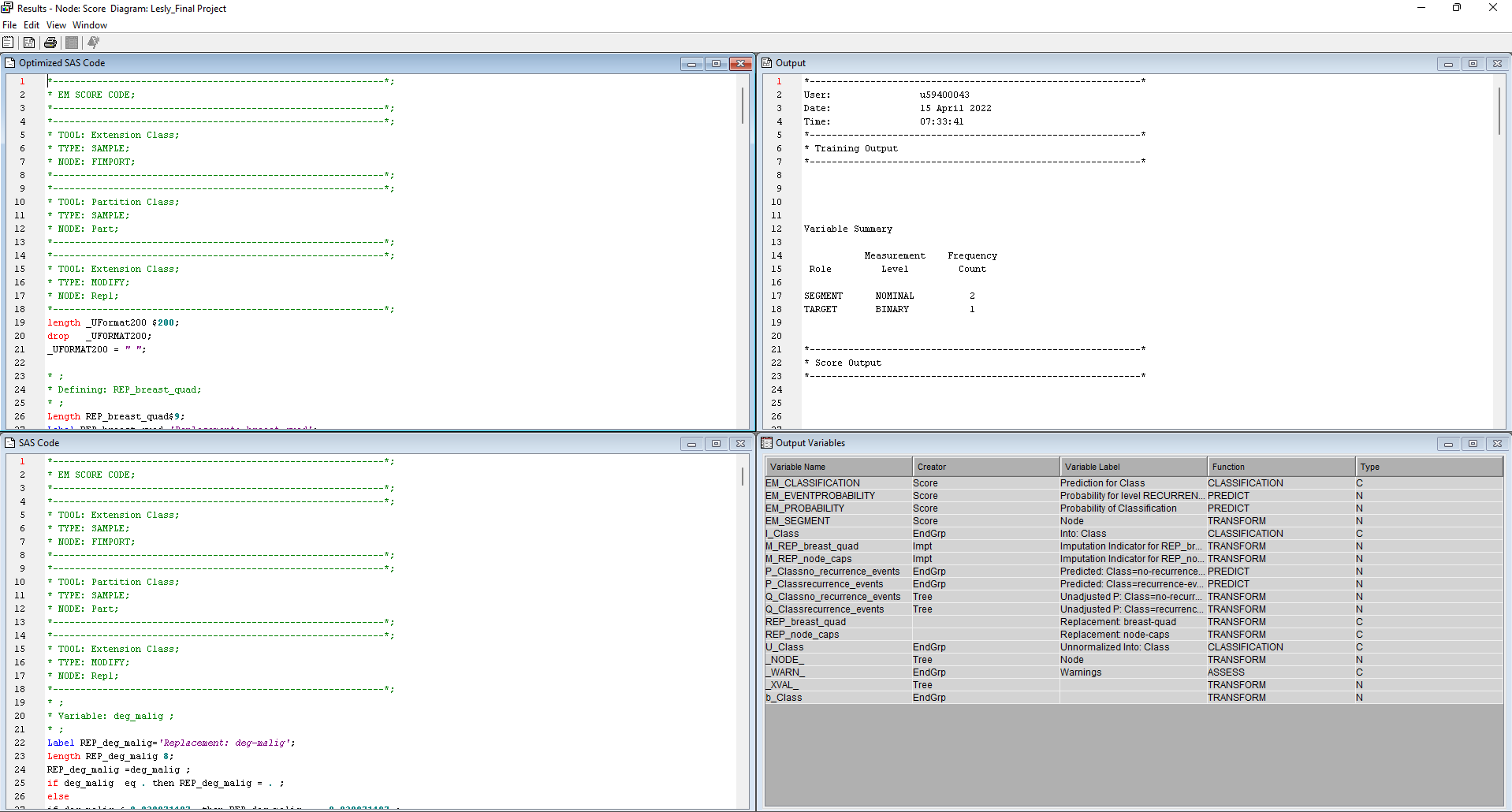
Description automatically generated

1. From Utility, drag End Group in the Diagram

Graphical user interface

Description automatically generated

1. From Assess, drag Score in the Diagram



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