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| **Tester** | Jason Toh Zhern Wee |
| **Test type** | Unit |
| **Component** | RFE |
| **Number of test suites** | 2 |
| **Number of test cases** | 5 |
| **Status** | Complete |
| **Test file** | rfe\_test.py |
| **Date of completion** | 15/09/2021 |

Testing the functionality of RFE

Rows highlighted yellow indicate test cases that have found issues present in the UI

# Test suite 1 (14/9/2021)

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| Test case ID | Test case description | Test data/setup | Expected Result | Actual Result | Pass/Fail |
| 1 | Selecting 6 features out of training size of 6 | Using the algorithm to select the features | All 6 features are selected | All 6 features are selected | Pass |
| 2 | Selecting 4 features out of training size of 6 | Using the algorithm to select the features | 4 Features are selected | 4 Features are selected | Pass |
| 3 | Selecting 0 features out of training size of 6 | Using the algorithm to select the features | No features are selected | An exception occurred  (Minimum of 1 feature needs to be presented) | Fail |
| 4 | Check to see if the algorithm works with negative training size | Using the algorithm to select the features | An exception occurred  (Invalid training size) | An exception occurred  (Invalid training size) | Pass |

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| Test case ID | Test case description | Test data/setup | Expected Result | Actual Result | Pass/Fail |
| 5 | Check to see if the number if features to be selected is more than the number of features in the sample | Using the algorithm to select the features | An exception occurred  (Number of selections is more than the number of features in the sample) | Returns an array with all features selected | Fail |

Test suite 2 (16/9/2021)

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| Test case ID | Test case description | Test data/setup | Expected Result | Actual Result | Pass/Fail |
| 3 | Selecting 0 features out of training size of 6 | Using the algorithm to select the features | An exception occurred  (Minimum of 1 feature needs to be presented) | An exception occurred  (Minimum of 1 feature needs to be presented) | Pass |
| 5 | Check to see if the number of features selected is more than the training size | Using the algorithm to select the features | Returns an array with all features selected | Returns an array with all features selected | Pass |

# Results

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| **Screenshot 1 (Test file part 1)** |
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| **Screenshot 2 (Test suite 1 and 2 output)** |
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