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| **Tester** | Tah Wen Zhong |
| **Test type** | Unit |
| **Component** | IHT |
| **Number of test suites** | 1 |
| **Number of test cases** | 5 |
| **Status** | Complete |
| **Test file** | iht\_test.py |
| **Date of completion** | 28/8/2021 |

Testing the functionality of Instance Hardness Threshold

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

# Test suite 1 (28/8/2021)

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| Test case ID | Test case description | Test data/setup | Expected Result | Actual Result | Pass/Fail |
| 1 | Test base functionality of IHT method | Perform IHT with mock data | Result returns successfully, with no errors | Result returns successfully, with no errors | Pass |
| 2 | Check if results output in the correct format | Perform IHT with mock data | Result should contain an array which contains the under-sampled metrics, followed by its labels | Result should contain an array which contains the under-sampled metrics, followed by its labels | Pass |
| 3 | Check if returned metric array contains the same number of columns | Perform IHT with mock data | The matrix array within the result should have an array containing rows with the same size as the initial input metrics array | The matrix array within the result should have an array containing rows with the same size as the initial input metrics array | Pass |
| 4 | Check if invalid fold argument is handled appropriately  (Should not cause an error) | Perform IHT with mock data for  k\_fold = 0 | No error occurs, with the input data being used as the output data | No error occurs, with the input data being used as the output data | Pass |
| 5 | Check if fold argument working correctly | Perform IHT with mock data for  k\_fold = 0 and 2 | Results of IHT for fold 0 and 2 differs | Results of IHT for fold 0 and 2 differs | Pass |

# Rationale (optional)

None.

# Results

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