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| **Tester** | Tah Wen Zhong |
| **Test type** | Unit |
| **Component** | K-Fold |
| **Number of test suites** | 1 |
| **Number of test cases** | 4 |
| **Status** | Complete |
| **Test file** | k-fold\_test.py |
| **Date of completion** | 28/8/2021 |

Testing the functionality of K-Fold cross validation

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 k-fold working with the default parameters | Perform k-fold with a dataset with 20 data | Returns 10 train-test splits | Returns 10 train-test splits | Pass |
| 2 | Fold argument (f) correctly adjusts the number of splits | Perform k-fold on a dataset with 21 data, for f= 3,6,9 | * f=3 returns 3 train-test splits * f=6 returns 6 train-test splits * f=9 returns 9 train-test splits | * f=3 returns 3 train-test splits * f=6 returns 6 train-test splits * f=9 returns 9 train-test splits | Pass |
| 3 | The k-fold should fail when insufficient f is given | Perform k-fold on a dataset with 1 data and f=2 | Error message shown | Error message shown | Pass |
| 4 | The k-fold can read dataset | Perform k-fold using a dataset file (KC.arff) | Returns 10 train-test splits with appropriate outputs | Returns 10 train-test splits with appropriate outputs | 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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