

Forward Selection Trace

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PS C:\Users\justi\OneDrive\CS 170\JKR_Project2> python3 .\main.py
Welcome to JKR's Feature Selection Algorithm.
Please enter total number of features: 4
Type the number of the algorithm you want to run.
1. Forward Selection
2. Backward Elimination
1
Beginning search.
Using no features and 'random' evaluation, I get an accuracy of 45.0%

Using feature(s) {1} accuracy is 18.1%
Using feature(s) {2} accuracy is 18.9%
Using feature(s) {3} accuracy is 70.6%
Using feature(s) {4} accuracy is 93.2%

Feature set {4} was best, accuracy is 93.2%

Using feature(s) {1, 4} accuracy is 38.5%
Using feature(s) {2, 4} accuracy is 95.1%
Using feature(s) {3, 4} accuracy is 84.0%

Feature set {2, 4} was best, accuracy is 95.1%

Using feature(s) {1, 2, 4} accuracy is 71.2%
Using feature(s) {2, 3, 4} accuracy is 39.7%
No improvement from adding any features, terminating search.

Finished search!! The best feature subset is {2, 4} which has an accuracy of 95.13385180883584 %
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