Welcome to XYZCoders Feature Selection Algorithm
Please enter the total number of features: 6
Type the number of the algorithm you want to run.
1. Forward Selection
2. Backward Elimination
3. Bertie's Special Algorithm
1
Using no features and "random" evaluation, I get an accuracy of 10.7156%

Beginning Forward Search.

Feature set {} was best, accuracy is 10.7156%
Using feature(s) {1} accuracy is 8.7628%
Using feature(s) {2} accuracy is 76.3913%
Using feature(s) {3} accuracy is 8.9898%
Using feature(s) {4} accuracy is 91.6329%
Using feature(s) {5} accuracy is 73.4117%
Using feature(s) {6} accuracy is 29.9258%

Feature set {4} was best, accuracy is 91.6329%
Using feature(s) {1, 4} accuracy is 62.2974%
Using feature(s) {2, 4} accuracy is 33.0393%
Using feature(s) {3, 4} accuracy is 90.7242%
Using feature(s) {4, 5} accuracy is 1.29688%
Using feature(s) {4, 6} accuracy is 96.6591%

Feature set {4, 6} was best, accuracy is 96.6591%
Using feature(s) {1, 4, 6} accuracy is 49.3443%
Using feature(s) {2, 4, 6} accuracy is 30.3833%
Using feature(s) {3, 4, 6} accuracy is 51.3405%
Using feature(s) {4, 5, 6} accuracy is 80.229%
The best feature subset is {4, 6} with an accuracy of 96.6591%
END OF ALGORITHM

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2
Using all features and "random" evaluation, I get an accuracy of 15%

Beginning Backward Search.

Feature set {1, 2, 3, 4, 5, 6} was best, accuracy is 15%
Using feature(s) {2, 3, 4, 5, 6} accuracy is 31.1841%
Using feature(s) {1, 3, 4, 5, 6} accuracy is 10.9919%
Using feature(s) {1, 2, 4, 5, 6} accuracy is 40.0588%
Using feature(s) {1, 2, 3, 5, 6} accuracy is 67.4696%
Using feature(s) {1, 2, 3, 4, 6} accuracy is 61.5901%
Using feature(s) {1, 2, 3, 4, 5} accuracy is 45.3846%

Feature set {1, 2, 3, 5, 6} was best, accuracy is 67.4696%
Using feature(s) {2, 3, 5, 6} accuracy is 79.4831%
Using feature(s) {1, 3, 5, 6} accuracy is 71.8108%
Using feature(s) {1, 2, 5, 6} accuracy is 24.7325%
Using feature(s) {1, 2, 3, 6} accuracy is 78.9624%
Using feature(s) {1, 2, 3, 5} accuracy is 20.5205%

Feature set {2, 3, 5, 6} was best, accuracy is 79.4831%
Using feature(s) {3, 5, 6} accuracy is 87.6328%
Using feature(s) {2, 5, 6} accuracy is 44.2298%
Using feature(s) {2, 3, 6} accuracy is 70.1413%
Using feature(s) {2, 3, 5} accuracy is 64.8265%

Feature set {3, 5, 6} was best, accuracy is 87.6328%
Using feature(s) {5, 6} accuracy is 39.3655%
Using feature(s) {3, 6} accuracy is 16.4781%
Using feature(s) {3, 5} accuracy is 47.8322%
The best feature subset is {3, 5, 6} with an accuracy of 87.6328%
END OF ALGORITHM