

CS170 Project2 Part 1

Forward Selection Tracer:

```
PS C:\Users\alexc\OneDrive\Desktop\cs170project2> .\main.exe
Hello, welcome to Alex Chen's Feature Selection Algorithm.
Please enter the amount of features
5
Next, select the number of the algorithm you want to run:
1) Forward Selection
2) Backward Elimination
1
Beginning Search
Currently on the 1th level of the search tree
Consider adding the 1 feature, accuracy is 42
Consider adding the 2 feature, accuracy is 68
Consider adding the 3 feature, accuracy is 35
Consider adding the 4 feature, accuracy is 1
Consider adding the 5 feature, accuracy is 70
On Level 1 i added feature 5 to current set
Currently on the 2th level of the search tree
Consider adding the 1 feature, accuracy is 25
Consider adding the 2 feature, accuracy is 79
Consider adding the 3 feature, accuracy is 59
Consider adding the 4 feature, accuracy is 63
On Level 2 i added feature 2 to current set
Currently on the 3th level of the search tree
Consider adding the 1 feature, accuracy is 65
Consider adding the 3 feature, accuracy is 6
Consider adding the 4 feature, accuracy is 46
On Level 3 i added feature 1 to current set
Currently on the 4th level of the search tree
Consider adding the 3 feature, accuracy is 82
Consider adding the 4 feature, accuracy is 28
On Level 4 i added feature 3 to current set
Currently on the 5th level of the search tree
Consider adding the 4 feature, accuracy is 62
On Level 5 i added feature 4 to current set
PS C:\Users\alexc\OneDrive\Desktop\cs170project2> |
```

Backwards Elimination Tracer:

```
PS C:\Users\alexc\OneDrive\Desktop\cs170project2> .\main.exe
Hello, welcome to Alex Chen's Feature Selection Algorithm.
Please enter the amount of features
5
Next, select the number of the algorithm you want to run:
1) Forward Selection
2) Backward Elimination
2
Beginning Elimination
Currently on the 5th level of the search tree
Consider eliminating the 5 feature, that has accuracy 42
Consider eliminating the 4 feature, that has accuracy 68
Consider eliminating the 3 feature, that has accuracy 35
Consider eliminating the 2 feature, that has accuracy 1
Consider eliminating the 1 feature, that has accuracy 70
On Level 5 I eliminated feature 1 to current set
Currently on the 4th level of the search tree
Consider eliminating the 5 feature, that has accuracy 25
Consider eliminating the 4 feature, that has accuracy 79
Consider eliminating the 3 feature, that has accuracy 59
Consider eliminating the 2 feature, that has accuracy 63
On Level 4 I eliminated feature 4 to current set
Currently on the 3th level of the search tree
Consider eliminating the 5 feature, that has accuracy 65
Consider eliminating the 3 feature, that has accuracy 6
Consider eliminating the 2 feature, that has accuracy 46
On Level 3 I eliminated feature 5 to current set
Currently on the 2th level of the search tree
Consider eliminating the 3 feature, that has accuracy 82
Consider eliminating the 2 feature, that has accuracy 28
On Level 2 I eliminated feature 3 to current set
Currently on the 1th level of the search tree
Consider eliminating the 2 feature, that has accuracy 62
On Level 1 I eliminated feature 2 to current set
PS C:\Users\alexc\OneDrive\Desktop\cs170project2> |
```