

CENG499 Assignment-2 Report

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Contents

1	Introduction	3
2	Part 1	4
2.1	Work	4
2.2	Results	4
3	Part 2	5
3.1	Work	5
3.2	Results	6
4	Part 3	28
4.1	Work	28
4.2	Results	29

List of Tables

1	The results for the accuracy values for each split for dataset2 . .	28
2	The results for the mean accuracy values for dataset2	28
3	Results for each split in the inner loop for each metric for RandomForestClassifier	39
4	Results for each split in the inner loop for each metric for SVC .	48
5	Results for each split in the inner loop for each metric for DecisionTreeClassifier	58
6	Results for each split in the inner loop for each metric for RandomForestClassifier	67
7	Results for each split in the inner loop for each metric for SVC .	77
8	Results for each split in the inner loop for each metric for DecisionTreeClassifier	86
9	Results for each split in the inner loop for each metric for RandomForestClassifier	95
10	Results for each split in the inner loop for each metric for SVC .	105

11	Results for each split in the inner loop for each metric for DecisionTreeClassifier	114
12	Results for each split in the inner loop for each metric for RandomForestClassifier	124
13	Results for each split in the inner loop for each metric for SVC .	133
14	Results for each split in the inner loop for each metric for DecisionTreeClassifier	143
15	Results for each split in the inner loop for each metric for RandomForestClassifier	152
16	Results for each split in the inner loop for each metric for SVC .	162
17	Results for each split in the inner loop for each metric for DecisionTreeClassifier	171
18	Results for each split in the inner loop for each metric for RandomForestClassifier	180
19	Results for each split in the inner loop for each metric for SVC .	190
20	Results for each split in the inner loop for each metric for DecisionTreeClassifier	199
21	Results for each split in the inner loop for each metric for RandomForestClassifier	209
22	Results for each split in the inner loop for each metric for SVC .	218
23	Results for each split in the inner loop for each metric for DecisionTreeClassifier	228
24	Results for each split in the inner loop for each metric for RandomForestClassifier	237
25	Results for each split in the inner loop for each metric for SVC .	247
26	Results for each split in the inner loop for each metric for DecisionTreeClassifier	256
27	Results for each split in the inner loop for each metric for RandomForestClassifier	265
28	Results for each split in the inner loop for each metric for SVC .	275
29	Results for each split in the inner loop for each metric for DecisionTreeClassifier	284
30	Results for each split in the inner loop for each metric for RandomForestClassifier	294
31	Results for each split in the inner loop for each metric for SVC .	303
32	Results for each split in the inner loop for each metric for DecisionTreeClassifier	313
33	Results for each split in the inner loop for each metric for RandomForestClassifier	322
34	Results for each split in the inner loop for each metric for SVC .	332
35	Results for each split in the inner loop for each metric for DecisionTreeClassifier	341
36	Results for each split in the inner loop for each metric for RandomForestClassifier	350
37	Results for each split in the inner loop for each metric for SVC .	360

38	Results for each split in the inner loop for each metric for DecisionTreeClassifier	369
39	Results for each split in the inner loop for each metric for RandomForestClassifier	379
40	Results for each split in the inner loop for each metric for SVC .	388
41	Results for each split in the inner loop for each metric for DecisionTreeClassifier	398
42	Results for each split in the inner loop for each metric for RandomForestClassifier	407
43	Results for each split in the inner loop for each metric for SVC .	417
44	Results for each split in the inner loop for each metric for DecisionTreeClassifier	426
45	Results for each split in the inner loop for each metric for RandomForestClassifier	435
46	Results for each split in the inner loop for each metric for SVC .	445
47	Results for each split in the inner loop for each metric for DecisionTreeClassifier	454
48	Best results for each split in the outer loop for each metric and estimator	457
49	Overall results, the average of the best results for each metric and estimator	457

List of Figures

1	The visualization of the tree	5
2	The decision boundaries for $(10^{-7}, \text{linear})$	7
3	The decision boundaries for $(10^{-7}, \text{rbf})$	8
4	The decision boundaries for $(10^{-7}, \text{poly}, 1)$	9
5	The decision boundaries for $(10^{-7}, \text{poly}, 2)$	10
6	The decision boundaries for $(10^{-7}, \text{poly}, 3)$	11
7	The decision boundaries for $(10^6, \text{linear})$	12
8	The decision boundaries for $(10^6, \text{rbf})$	13
9	The decision boundaries for $(10^6, \text{poly}, 1)$	14
10	The decision boundaries for $(10^6, \text{poly}, 2)$	15
11	The decision boundaries for $(10^6, \text{poly}, 3)$	16

1 Introduction

This report aims to inform about the methodology and the results of a work composed of three parts. For each part in first subsection, the preparations, methodology, and the details of the work done in that part is introduced. In the subsection after that, the results of the work are discussed. Note that some parts have additional subsections. Further note that all confidence scores have

level 95% for all results, and that the accuracy scores are on the range [0,1] instead of at the percentage level.

2 Part 1

2.1 Work

The work is reimplementing of the *ID3* algorithm. The pseudocode for the implementation is as below

```
function ID3(  
    S: dataset,  
    S: y: labels for each instance i with a class  $C_j$  from classes  $C$ ,  
):  
    If all examples in S belong to the same class  $C_j$ :  
        return S as a leaf node  
    else:  
        Select an attribute A according to some heuristic function h  
        Create a decision tree DT with only one node with the attribute A  
        For each value  $v_i$  of A:  
            Get  $S_i$ , all examples in S with attribute  $v_i$   
            Similarly  $y_i$ , all examples in y with attribute  $v_i$   
            Obtain  $DT_i = \text{ID3}(S_i, y_i)$   
            Connect  $DT_i$  as a child node of DT  
        return DT
```

Some utilities such as the heuristic functions (information gain and gain ratio), and the *ID3* function itself is implemented as a class in `ID3.py` file.

2.2 Results

The implementation is tested in `mainID3.py` file provided by the instructor. The file tests training data accuracy, just to see if the implementation is done as intended. Because the tree doesn't use any pruning methods, hence is overfitted to the training data, it should give 100% accuracy, and it does. The class has an additional method `print2dotfile` to visualize the tree. Both heuristic functions output the same PNG file as in figure 1. Delimited by the character `_,` the number after the attribute nodes give the depth. Similarly, the depth information for the leaf nodes is the last number. The first number denotes the class of the leaf node (0 or 1 in our binary case).

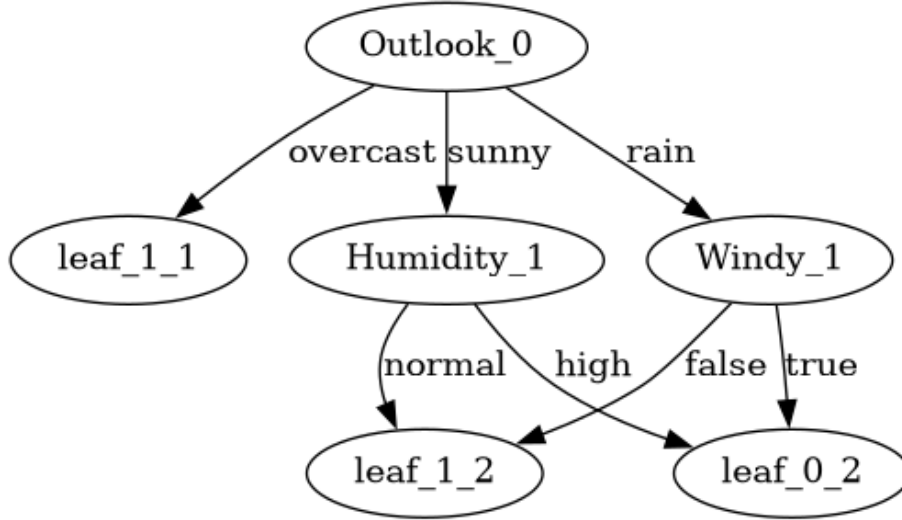


Figure 1: The visualization of the tree

3 Part 2

3.1 Work

This part consists of two files. Scikit-learn's Support Vector Classifier (SVC) (SVC) implementation is used [4].

In `svm_dataset1.py`, the classifier is tested on a dataset with different configuration of parameters

$$(C \in \{10^{-7}, 10^6\}, \text{kernel} \in \{\text{linear}, \text{poly}, \text{rbf}\}), [\text{degree} \in \{1, 2, 3\}]$$

The parameter `C` is the penalty parameter, `kernel` denotes the kernel type and `degree` is the degree of the polynomial (only used when the kernel type is polynomial). The kernel types `linear`, `poly`, `rbf` are linear, polynomial and the radial basis function respectively.

In order to observe the effects of the parameters, the values for the penalty parameter (`C`) are chosen so that they are distant. One may use `sys.float_info.max` or `sys.float_info.min`; however, for the polynomial kernel with degree 2 the program cannot find contour lines due to precision loss (more on contours later). For each parameter configuration, the decision boundaries are plotted. The function `plotContour2d` plots the contour lines. The contour lines are the points that the function has equal values. In our case the function is the decision function of the SVM, $f(x) = \sum_i \alpha_i K(x_i, x) + w_0$ where x_i are the support vectors, α_i are the Lagrange multipliers such that $\sum_i \alpha_i x_i = w$, the normal weight vector, and w_0 is the corresponding bias. The zeroth level contour line is the separating hyperplane (Beware the `levels` parameter of the `plt.contour` function).

In `svm_dataset2.py`, a grid search on parameters given by

$$(C \in \{1, 10\}, \text{kernel} \in \{\text{linear}, \text{poly}, \text{rbf}\}, [\text{degree} \in \{1, 2, 3\}])$$

with `RepeatedStratifiedKFold` with 10 splits and 5 repeats is conducted. The data needs to be preprocessed at each run (`StandardScaler` is used [1]), therefore a custom estimator (`EstimatorWithAPreprocessing`) encapsulating both the preprocessor and the estimator is created. It only allows its estimator's parameters to be set. When `fit` is called on this estimator, the data is fit to training samples acquiring its statistics, the training samples are transformed and the estimator is fit to this transformed data. In `predict` method, the data is transformed with the statistics calculated when the preprocessor is fit to the training data. Then the estimator predicts labels of data with the transformed data.

The program saves the accuracy score of each run separately. For analysis, it also saves the mean accuracy score among the splits for each parameter.

3.2 Results

For the results of In `svm_dataset1.py`, the plots are in figures 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11. As seen in the plots, the data is not linearly separable, hence the linear kernel (also polynomial with degree 1) performs worse. One may observe that when the decision function $f(x) = \sum_i \alpha_i K(x_i, x) + w_0$ is zero on the separating hyperplane. For the polynomial kernel with degree 2, the function becomes $\sum_i \alpha_i (x_i^T x + 1)^2 + w_0 = 0$. In other form, it is

$$\sum_i \sum_j \alpha_i (x_{i_j} x_j + 1)^2 = -w_0$$

$$\sum_i \sum_j \frac{\alpha_i x_{i_j}^2}{-w_0} (x_j + \frac{1}{x_{i_j}})^2 = 1$$

Noting that the support vectors x_i are known beforehand, hence constants, this equation is of an ellipsoid. The expression $\frac{-w_0}{\alpha_i x_{i_j}^2}$ scales the axes, (they are a kind of semi-axes for the ellipsoid, please refer [7]). x_{i_j} also defines a centroid that the ellipsoid scales around. Knowing that the separating hyperplane is a kind of circle, for this data that could be separated with a circle, the polynomial kernel with degree 2 is useful. To build the similar intuition, one may use a graph visualization tool such as *Desmos*. The expression with the RBF is more complex; however, using a graph calculator, one may see that it may generalize to many curves, and it resolves a circular shape, performing successfully. In this regard, RBF kernel is more flexible compared to the polynomial. As the penalty parameter increases the curve gets further away from the points, maximizing its margin for both groups, acting like the maximum margin classifier. On the other hand, small penalty parameters give softer margins. This is more visible in the cases where both groups are separated correctly.

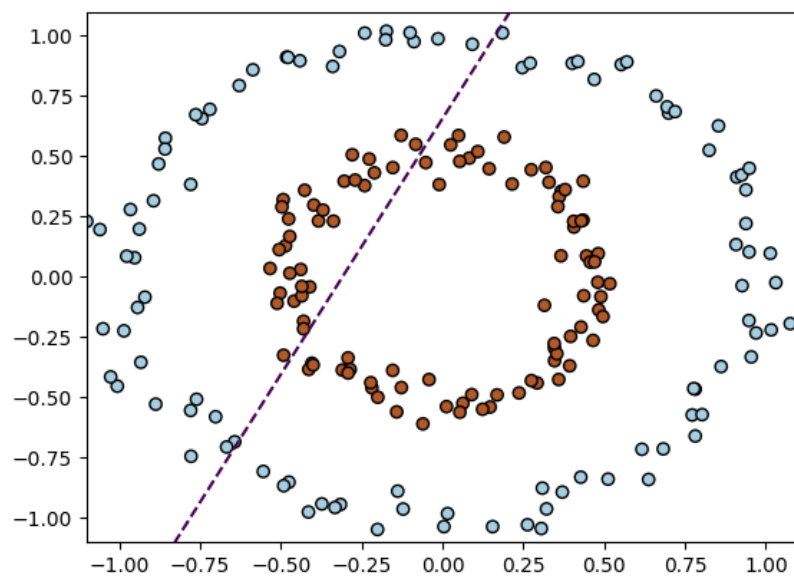


Figure 2: The decision boundaries for $(10^{-7}, \text{linear})$

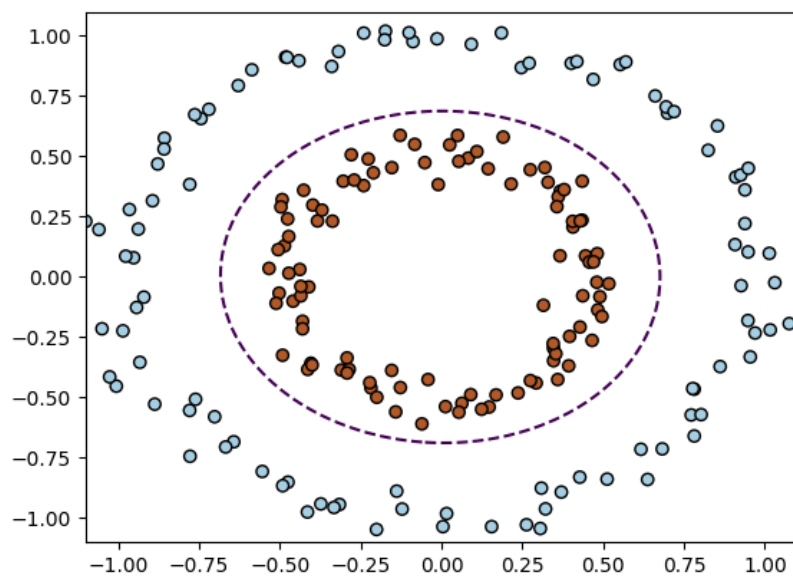


Figure 3: The decision boundaries for $(10^{-7}, \text{rbf})$

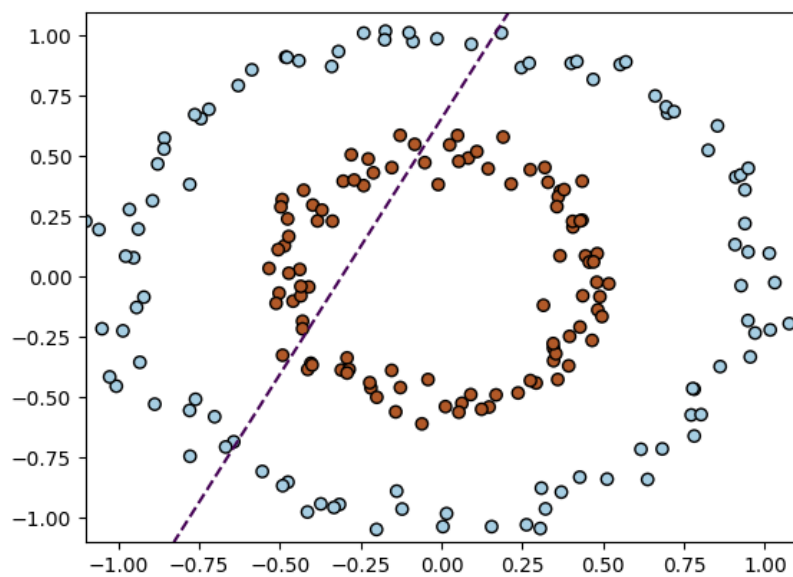


Figure 4: The decision boundaries for $(10^{-7}, \text{poly}, 1)$

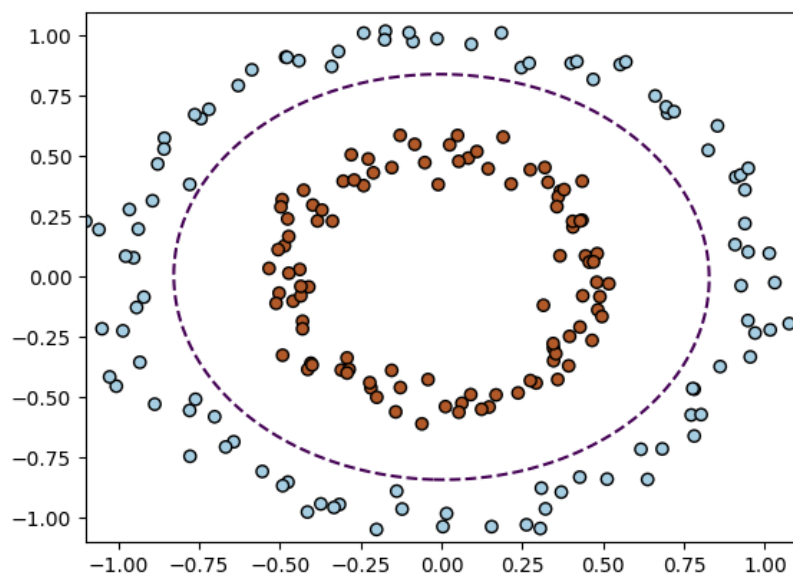


Figure 5: The decision boundaries for $(10^{-7}, \text{poly}, 2)$

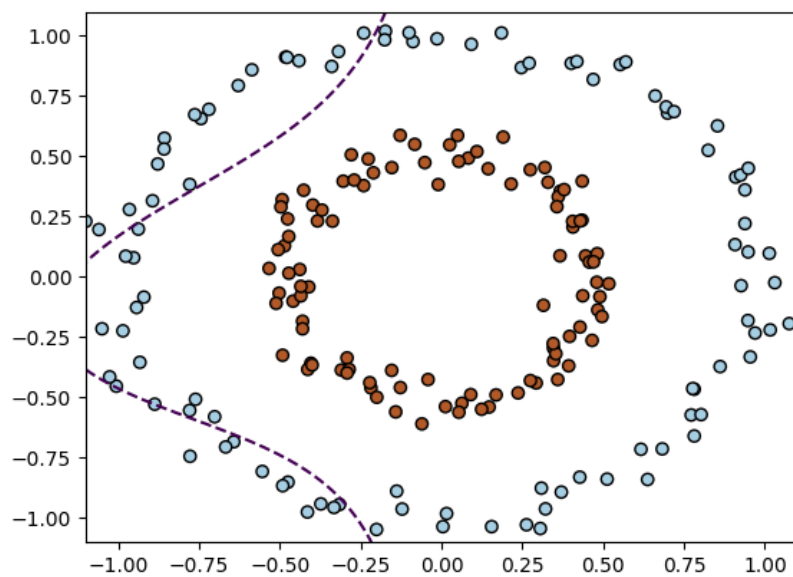


Figure 6: The decision boundaries for $(10^{-7}, \text{poly}, 3)$

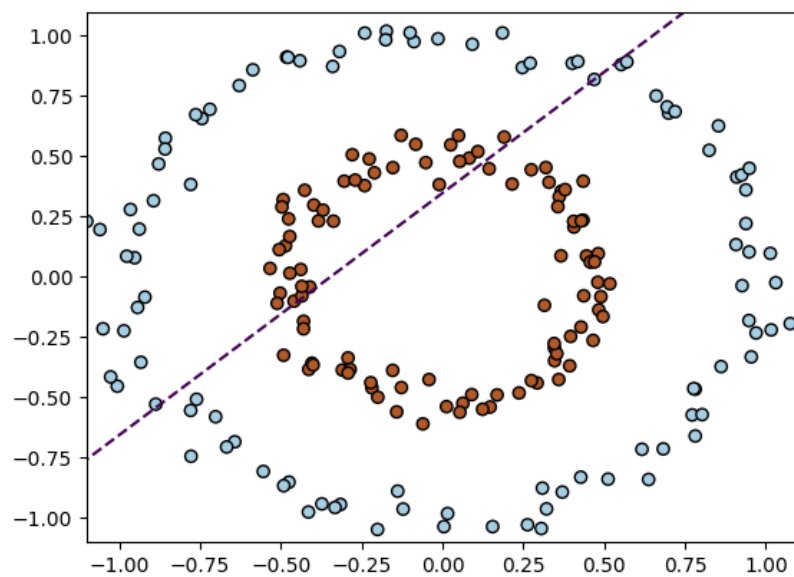


Figure 7: The decision boundaries for $(10^6, \text{linear})$

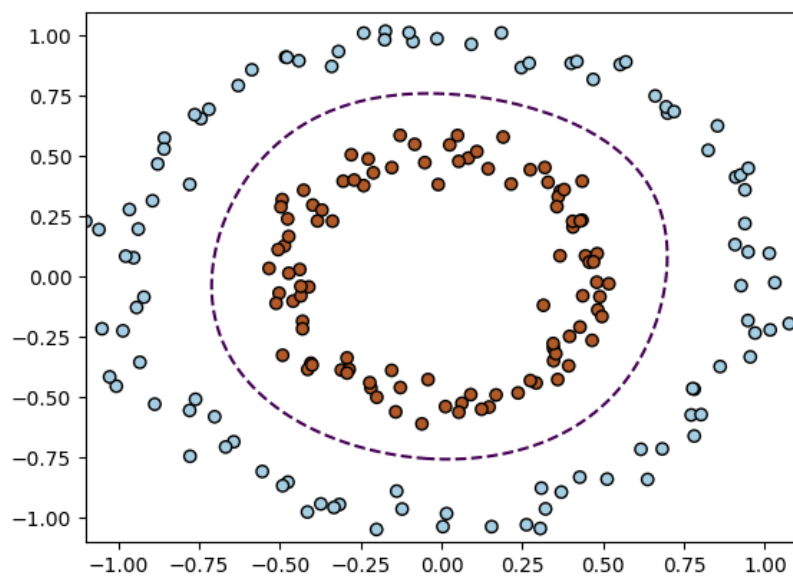


Figure 8: The decision boundaries for $(10^6, \text{rbf})$

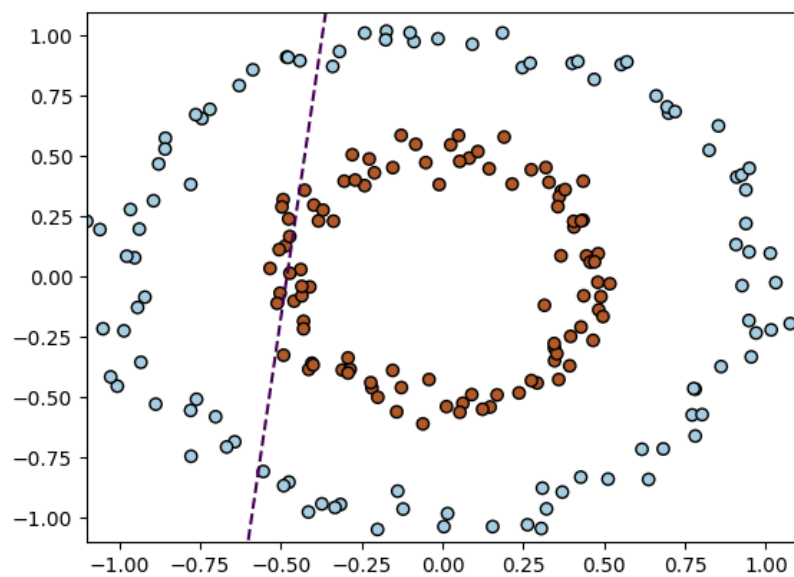


Figure 9: The decision boundaries for $(10^6, \text{poly}, 1)$

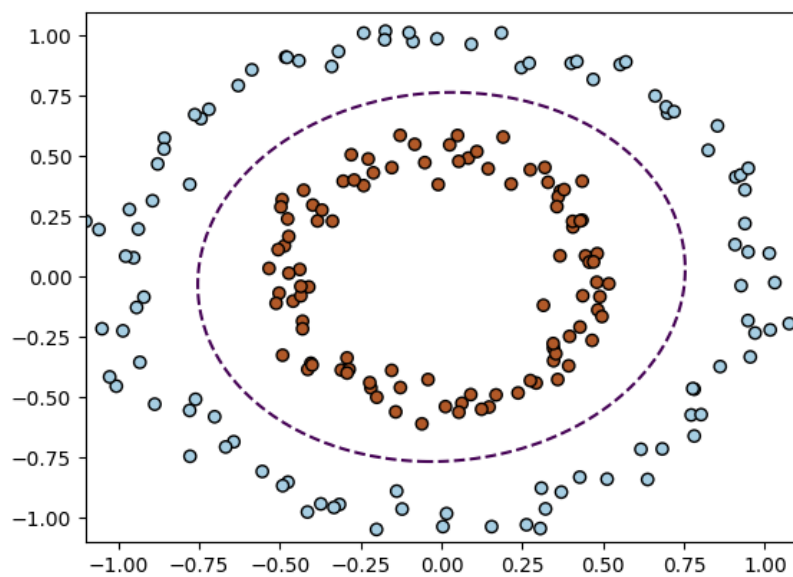


Figure 10: The decision boundaries for $(10^6, \text{poly}, 2)$

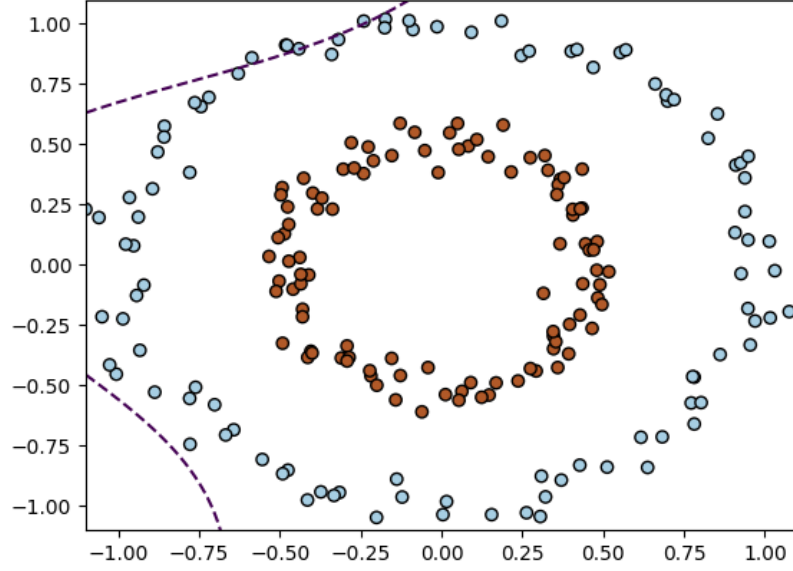


Figure 11: The decision boundaries for $(10^6, \text{poly}, 3)$

For `svm_dataset2.py`, the results are in the tables 1 and 2. Confirmed by reruns (which should not be done to avoid overfitting), as seen in the table of mean accuracies, the configurations with the kernel function linear, and polynomial with degree 1 perform the best. This could be because the data is linearly separable.

Split number	C	degree	kernel	Score
1	1	-	linear	1.0
1	1	1	poly	0.9333333333333333
1	1	2	poly	0.8666666666666667
1	1	3	poly	0.8666666666666667
1	1	-	rbf	0.8666666666666667
1	10	-	linear	1.0
1	10	1	poly	1.0
1	10	2	poly	1.0
1	10	3	poly	0.9333333333333333
1	10	-	rbf	0.8666666666666667
2	1	-	linear	0.9333333333333333
2	1	1	poly	0.9333333333333333
2	1	2	poly	0.8

2	1	3	poly	0.8
2	1	-	rbf	0.8666666666666667
2	10	-	linear	0.9333333333333333
2	10	1	poly	0.9333333333333333
2	10	2	poly	0.8666666666666667
2	10	3	poly	0.8666666666666667
2	10	-	rbf	0.9333333333333333
3	1	-	linear	1.0
3	1	1	poly	1.0
3	1	2	poly	1.0
3	1	3	poly	1.0
3	1	-	rbf	1.0
3	10	-	linear	1.0
3	10	1	poly	1.0
3	10	2	poly	0.8666666666666667
3	10	3	poly	1.0
3	10	-	rbf	1.0
4	1	-	linear	1.0
4	1	1	poly	1.0
4	1	2	poly	0.8
4	1	3	poly	0.9333333333333333
4	1	-	rbf	1.0
4	10	-	linear	1.0
4	10	1	poly	1.0
4	10	2	poly	0.7333333333333333
4	10	3	poly	1.0
4	10	-	rbf	1.0
5	1	-	linear	1.0
5	1	1	poly	1.0
5	1	2	poly	0.7333333333333333
5	1	3	poly	0.8666666666666667
5	1	-	rbf	0.9333333333333333
5	10	-	linear	1.0
5	10	1	poly	1.0
5	10	2	poly	0.8
5	10	3	poly	1.0
5	10	-	rbf	0.9333333333333333
6	1	-	linear	0.9333333333333333
6	1	1	poly	0.9333333333333333
6	1	2	poly	0.7333333333333333
6	1	3	poly	0.8666666666666667
6	1	-	rbf	0.9333333333333333
6	10	-	linear	0.9333333333333333

6	10	1	poly	0.9333333333333333
6	10	2	poly	0.7333333333333333
6	10	3	poly	0.8666666666666667
6	10	-	rbf	0.9333333333333333
7	1	-	linear	0.9333333333333333
7	1	1	poly	0.9333333333333333
7	1	2	poly	0.8
7	1	3	poly	0.8666666666666667
7	1	-	rbf	0.9333333333333333
7	10	-	linear	0.9333333333333333
7	10	1	poly	0.9333333333333333
7	10	2	poly	0.8666666666666667
7	10	3	poly	0.9333333333333333
7	10	-	rbf	0.9333333333333333
8	1	-	linear	0.9333333333333333
8	1	1	poly	0.9333333333333333
8	1	2	poly	0.9333333333333333
8	1	3	poly	0.9333333333333333
8	1	-	rbf	0.9333333333333333
8	10	-	linear	0.9333333333333333
8	10	1	poly	0.9333333333333333
8	10	2	poly	0.7333333333333333
8	10	3	poly	0.9333333333333333
8	10	-	rbf	0.9333333333333333
9	1	-	linear	0.9333333333333333
9	1	1	poly	0.9333333333333333
9	1	2	poly	0.6666666666666666
9	1	3	poly	0.7333333333333333
9	1	-	rbf	0.8
9	10	-	linear	1.0
9	10	1	poly	1.0
9	10	2	poly	0.8
9	10	3	poly	0.8666666666666667
9	10	-	rbf	0.9333333333333333
10	1	-	linear	0.9333333333333333
10	1	1	poly	0.8666666666666667
10	1	2	poly	0.7333333333333333
10	1	3	poly	0.8
10	1	-	rbf	0.8666666666666667
10	10	-	linear	0.8666666666666667
10	10	1	poly	0.8666666666666667
10	10	2	poly	0.8666666666666667
10	10	3	poly	0.8666666666666667

10	10	-	rbf	0.8666666666666667
11	1	-	linear	0.9333333333333333
11	1	1	poly	0.9333333333333333
11	1	2	poly	0.7333333333333333
11	1	3	poly	0.8666666666666667
11	1	-	rbf	0.8666666666666667
11	10	-	linear	0.9333333333333333
11	10	1	poly	0.9333333333333333
11	10	2	poly	0.8666666666666667
11	10	3	poly	0.8666666666666667
11	10	-	rbf	0.8
12	1	-	linear	1.0
12	1	1	poly	0.9333333333333333
12	1	2	poly	0.8
12	1	3	poly	0.8666666666666667
12	1	-	rbf	1.0
12	10	-	linear	1.0
12	10	1	poly	1.0
12	10	2	poly	1.0
12	10	3	poly	1.0
12	10	-	rbf	1.0
13	1	-	linear	1.0
13	1	1	poly	1.0
13	1	2	poly	0.8666666666666667
13	1	3	poly	1.0
13	1	-	rbf	1.0
13	10	-	linear	1.0
13	10	1	poly	1.0
13	10	2	poly	0.7333333333333333
13	10	3	poly	1.0
13	10	-	rbf	1.0
14	1	-	linear	0.8666666666666667
14	1	1	poly	0.8666666666666667
14	1	2	poly	0.8
14	1	3	poly	0.9333333333333333
14	1	-	rbf	0.8666666666666667
14	10	-	linear	0.8666666666666667
14	10	1	poly	0.8666666666666667
14	10	2	poly	0.8666666666666667
14	10	3	poly	0.8666666666666667
14	10	-	rbf	0.8666666666666667
15	1	-	linear	0.8666666666666667
15	1	1	poly	0.8666666666666667

15	1	2	poly	0.6666666666666666
15	1	3	poly	0.7333333333333333
15	1	-	rbf	0.8
15	10	-	linear	0.9333333333333333
15	10	1	poly	0.9333333333333333
15	10	2	poly	0.6666666666666666
15	10	3	poly	0.8666666666666667
15	10	-	rbf	0.8666666666666667
16	1	-	linear	0.9333333333333333
16	1	1	poly	1.0
16	1	2	poly	0.8666666666666667
16	1	3	poly	0.9333333333333333
16	1	-	rbf	0.9333333333333333
16	10	-	linear	0.9333333333333333
16	10	1	poly	1.0
16	10	2	poly	0.8666666666666667
16	10	3	poly	1.0
16	10	-	rbf	0.9333333333333333
17	1	-	linear	0.9333333333333333
17	1	1	poly	0.9333333333333333
17	1	2	poly	0.8
17	1	3	poly	0.8
17	1	-	rbf	0.9333333333333333
17	10	-	linear	0.9333333333333333
17	10	1	poly	0.9333333333333333
17	10	2	poly	0.9333333333333333
17	10	3	poly	0.8666666666666667
17	10	-	rbf	0.9333333333333333
18	1	-	linear	0.9333333333333333
18	1	1	poly	1.0
18	1	2	poly	0.6666666666666666
18	1	3	poly	0.9333333333333333
18	1	-	rbf	0.8666666666666667
18	10	-	linear	0.9333333333333333
18	10	1	poly	0.9333333333333333
18	10	2	poly	0.6666666666666666
18	10	3	poly	0.8666666666666667
18	10	-	rbf	0.9333333333333333
19	1	-	linear	1.0
19	1	1	poly	0.9333333333333333
19	1	2	poly	0.8
19	1	3	poly	0.8666666666666667
19	1	-	rbf	0.9333333333333333

19	10	-	linear	0.9333333333333333
19	10	1	poly	0.9333333333333333
19	10	2	poly	0.8666666666666667
19	10	3	poly	0.9333333333333333
19	10	-	rbf	0.8666666666666667
20	1	-	linear	1.0
20	1	1	poly	1.0
20	1	2	poly	0.9333333333333333
20	1	3	poly	0.8666666666666667
20	1	-	rbf	1.0
20	10	-	linear	1.0
20	10	1	poly	1.0
20	10	2	poly	0.9333333333333333
20	10	3	poly	1.0
20	10	-	rbf	1.0
21	1	-	linear	0.8666666666666667
21	1	1	poly	0.8666666666666667
21	1	2	poly	0.7333333333333333
21	1	3	poly	0.9333333333333333
21	1	-	rbf	0.8666666666666667
21	10	-	linear	0.8666666666666667
21	10	1	poly	0.8666666666666667
21	10	2	poly	0.7333333333333333
21	10	3	poly	0.8666666666666667
21	10	-	rbf	0.8666666666666667
22	1	-	linear	0.9333333333333333
22	1	1	poly	1.0
22	1	2	poly	0.8666666666666667
22	1	3	poly	1.0
22	1	-	rbf	1.0
22	10	-	linear	0.9333333333333333
22	10	1	poly	1.0
22	10	2	poly	0.9333333333333333
22	10	3	poly	0.9333333333333333
22	10	-	rbf	0.9333333333333333
23	1	-	linear	1.0
23	1	1	poly	1.0
23	1	2	poly	0.8
23	1	3	poly	0.9333333333333333
23	1	-	rbf	1.0
23	10	-	linear	1.0
23	10	1	poly	1.0
23	10	2	poly	0.8

23	10	3	poly	0.9333333333333333
23	10	-	rbf	1.0
24	1	-	linear	0.9333333333333333
24	1	1	poly	0.9333333333333333
24	1	2	poly	0.8
24	1	3	poly	0.8666666666666667
24	1	-	rbf	0.9333333333333333
24	10	-	linear	0.9333333333333333
24	10	1	poly	0.9333333333333333
24	10	2	poly	0.8
24	10	3	poly	0.9333333333333333
24	10	-	rbf	0.9333333333333333
25	1	-	linear	0.9333333333333333
25	1	1	poly	0.8666666666666667
25	1	2	poly	0.6666666666666666
25	1	3	poly	0.8
25	1	-	rbf	0.8
25	10	-	linear	0.9333333333333333
25	10	1	poly	0.9333333333333333
25	10	2	poly	0.9333333333333333
25	10	3	poly	0.8
25	10	-	rbf	0.8666666666666667
26	1	-	linear	0.9333333333333333
26	1	1	poly	0.9333333333333333
26	1	2	poly	0.7333333333333333
26	1	3	poly	0.8
26	1	-	rbf	0.9333333333333333
26	10	-	linear	0.9333333333333333
26	10	1	poly	0.9333333333333333
26	10	2	poly	0.8
26	10	3	poly	1.0
26	10	-	rbf	0.9333333333333333
27	1	-	linear	1.0
27	1	1	poly	1.0
27	1	2	poly	0.9333333333333333
27	1	3	poly	0.9333333333333333
27	1	-	rbf	0.9333333333333333
27	10	-	linear	1.0
27	10	1	poly	1.0
27	10	2	poly	1.0
27	10	3	poly	1.0
27	10	-	rbf	1.0
28	1	-	linear	0.9333333333333333

28	1	1	poly	0.8666666666666667
28	1	2	poly	0.7333333333333333
28	1	3	poly	0.8
28	1	-	rbf	0.8666666666666667
28	10	-	linear	0.9333333333333333
28	10	1	poly	0.9333333333333333
28	10	2	poly	0.7333333333333333
28	10	3	poly	0.8666666666666667
28	10	-	rbf	0.9333333333333333
29	1	-	linear	1.0
29	1	1	poly	1.0
29	1	2	poly	0.8666666666666667
29	1	3	poly	0.8666666666666667
29	1	-	rbf	1.0
29	10	-	linear	1.0
29	10	1	poly	1.0
29	10	2	poly	0.8
29	10	3	poly	1.0
29	10	-	rbf	1.0
30	1	-	linear	1.0
30	1	1	poly	1.0
30	1	2	poly	0.8
30	1	3	poly	0.8666666666666667
30	1	-	rbf	0.9333333333333333
30	10	-	linear	1.0
30	10	1	poly	1.0
30	10	2	poly	0.9333333333333333
30	10	3	poly	1.0
30	10	-	rbf	0.9333333333333333
31	1	-	linear	0.9333333333333333
31	1	1	poly	0.8666666666666667
31	1	2	poly	0.8
31	1	3	poly	0.8
31	1	-	rbf	0.8666666666666667
31	10	-	linear	0.9333333333333333
31	10	1	poly	0.9333333333333333
31	10	2	poly	0.9333333333333333
31	10	3	poly	0.8666666666666667
31	10	-	rbf	0.9333333333333333
32	1	-	linear	0.9333333333333333
32	1	1	poly	0.9333333333333333
32	1	2	poly	0.8
32	1	3	poly	0.8666666666666667

32	1	-	rbf	0.8666666666666667
32	10	-	linear	0.9333333333333333
32	10	1	poly	0.9333333333333333
32	10	2	poly	0.8666666666666667
32	10	3	poly	0.9333333333333333
32	10	-	rbf	0.9333333333333333
33	1	-	linear	0.9333333333333333
33	1	1	poly	1.0
33	1	2	poly	0.8
33	1	3	poly	0.9333333333333333
33	1	-	rbf	1.0
33	10	-	linear	0.9333333333333333
33	10	1	poly	1.0
33	10	2	poly	0.8666666666666667
33	10	3	poly	1.0
33	10	-	rbf	1.0
34	1	-	linear	0.8666666666666667
34	1	1	poly	0.8666666666666667
34	1	2	poly	0.8
34	1	3	poly	0.8666666666666667
34	1	-	rbf	0.8666666666666667
34	10	-	linear	0.8666666666666667
34	10	1	poly	0.8666666666666667
34	10	2	poly	0.7333333333333333
34	10	3	poly	0.8666666666666667
34	10	-	rbf	0.8666666666666667
35	1	-	linear	0.9333333333333333
35	1	1	poly	0.9333333333333333
35	1	2	poly	0.6666666666666666
35	1	3	poly	0.6666666666666666
35	1	-	rbf	0.8666666666666667
35	10	-	linear	1.0
35	10	1	poly	1.0
35	10	2	poly	0.9333333333333333
35	10	3	poly	0.8666666666666667
35	10	-	rbf	1.0
36	1	-	linear	0.9333333333333333
36	1	1	poly	0.8666666666666667
36	1	2	poly	0.8666666666666667
36	1	3	poly	0.9333333333333333
36	1	-	rbf	0.8
36	10	-	linear	0.9333333333333333
36	10	1	poly	0.9333333333333333

36	10	2	poly	0.8
36	10	3	poly	0.8666666666666667
36	10	-	rbf	0.9333333333333333
37	1	-	linear	1.0
37	1	1	poly	1.0
37	1	2	poly	0.9333333333333333
37	1	3	poly	1.0
37	1	-	rbf	1.0
37	10	-	linear	1.0
37	10	1	poly	1.0
37	10	2	poly	0.9333333333333333
37	10	3	poly	1.0
37	10	-	rbf	1.0
38	1	-	linear	1.0
38	1	1	poly	0.9333333333333333
38	1	2	poly	0.8666666666666667
38	1	3	poly	0.9333333333333333
38	1	-	rbf	0.9333333333333333
38	10	-	linear	0.9333333333333333
38	10	1	poly	0.9333333333333333
38	10	2	poly	0.7333333333333333
38	10	3	poly	0.9333333333333333
38	10	-	rbf	0.9333333333333333
39	1	-	linear	1.0
39	1	1	poly	1.0
39	1	2	poly	0.8666666666666667
39	1	3	poly	0.9333333333333333
39	1	-	rbf	0.9333333333333333
39	10	-	linear	1.0
39	10	1	poly	1.0
39	10	2	poly	1.0
39	10	3	poly	0.9333333333333333
39	10	-	rbf	1.0
40	1	-	linear	1.0
40	1	1	poly	1.0
40	1	2	poly	0.8
40	1	3	poly	1.0
40	1	-	rbf	1.0
40	10	-	linear	1.0
40	10	1	poly	1.0
40	10	2	poly	0.7333333333333333
40	10	3	poly	1.0
40	10	-	rbf	1.0

41	1	-	linear	0.9333333333333333
41	1	1	poly	0.9333333333333333
41	1	2	poly	0.7333333333333333
41	1	3	poly	0.9333333333333333
41	1	-	rbf	0.8666666666666667
41	10	-	linear	1.0
41	10	1	poly	1.0
41	10	2	poly	0.8666666666666667
41	10	3	poly	0.9333333333333333
41	10	-	rbf	0.8666666666666667
42	1	-	linear	1.0
42	1	1	poly	1.0
42	1	2	poly	0.8666666666666667
42	1	3	poly	0.9333333333333333
42	1	-	rbf	1.0
42	10	-	linear	1.0
42	10	1	poly	1.0
42	10	2	poly	0.9333333333333333
42	10	3	poly	0.9333333333333333
42	10	-	rbf	1.0
43	1	-	linear	0.8666666666666667
43	1	1	poly	0.8666666666666667
43	1	2	poly	0.8
43	1	3	poly	0.7333333333333333
43	1	-	rbf	0.8
43	10	-	linear	0.8666666666666667
43	10	1	poly	0.8666666666666667
43	10	2	poly	0.8
43	10	3	poly	0.8
43	10	-	rbf	0.8666666666666667
44	1	-	linear	1.0
44	1	1	poly	1.0
44	1	2	poly	0.8666666666666667
44	1	3	poly	0.8666666666666667
44	1	-	rbf	1.0
44	10	-	linear	1.0
44	10	1	poly	1.0
44	10	2	poly	1.0
44	10	3	poly	0.9333333333333333
44	10	-	rbf	1.0
45	1	-	linear	0.9333333333333333
45	1	1	poly	0.9333333333333333
45	1	2	poly	0.8

45	1	3	poly	0.8666666666666667
45	1	-	rbf	0.9333333333333333
45	10	-	linear	0.9333333333333333
45	10	1	poly	0.9333333333333333
45	10	2	poly	0.8666666666666667
45	10	3	poly	0.9333333333333333
45	10	-	rbf	0.9333333333333333
46	1	-	linear	1.0
46	1	1	poly	1.0
46	1	2	poly	0.8666666666666667
46	1	3	poly	0.7333333333333333
46	1	-	rbf	0.9333333333333333
46	10	-	linear	1.0
46	10	1	poly	1.0
46	10	2	poly	0.9333333333333333
46	10	3	poly	1.0
46	10	-	rbf	1.0
47	1	-	linear	1.0
47	1	1	poly	1.0
47	1	2	poly	0.8
47	1	3	poly	1.0
47	1	-	rbf	1.0
47	10	-	linear	1.0
47	10	1	poly	1.0
47	10	2	poly	0.8
47	10	3	poly	1.0
47	10	-	rbf	1.0
48	1	-	linear	0.9333333333333333
48	1	1	poly	0.9333333333333333
48	1	2	poly	0.8666666666666667
48	1	3	poly	1.0
48	1	-	rbf	0.9333333333333333
48	10	-	linear	0.9333333333333333
48	10	1	poly	0.9333333333333333
48	10	2	poly	0.8
48	10	3	poly	0.9333333333333333
48	10	-	rbf	0.9333333333333333
49	1	-	linear	0.9333333333333333
49	1	1	poly	0.9333333333333333
49	1	2	poly	0.6
49	1	3	poly	0.9333333333333333
49	1	-	rbf	0.9333333333333333
49	10	-	linear	0.9333333333333333

49	10	1	poly	0.9333333333333333
49	10	2	poly	0.6666666666666666
49	10	3	poly	0.9333333333333333
49	10	-	rbf	0.9333333333333333
50	1	-	linear	0.9333333333333333
50	1	1	poly	0.8666666666666667
50	1	2	poly	0.8
50	1	3	poly	0.8
50	1	-	rbf	0.8666666666666667
50	10	-	linear	0.9333333333333333
50	10	1	poly	0.9333333333333333
50	10	2	poly	0.8666666666666667
50	10	3	poly	0.8666666666666667
50	10	-	rbf	0.8666666666666667

Table 1: The results for the accuracy values for each split for dataset2

C	Kernel function	Degree	Mean accuracy
1	linear	-	$0.9533333333333333 \pm 0.03741723904536219$
1	poly	1	$0.9453333333333334 \pm 0.04479408849886828$
1	poly	2	$0.8026666666666666 \pm 0.07105191491672364$
1	poly	3	$0.8799999999999999 \pm 0.07109035252565724$
1	rbf	-	$0.92 \pm 0.056049755673964446$
10	linear	-	$0.9546666666666667 \pm 0.03776244059909263$
10	poly	1	$0.9586666666666666 \pm 0.03856770047591636$
10	poly	2	$0.8440000000000001 \pm 0.0814840518274725$
10	poly	3	$0.9279999999999999 \pm 0.052057180185723535$
10	rbf	-	$0.9386666666666666 \pm 0.04651439691106398$

Table 2: The results for the mean accuracy values for dataset2

4 Part 3

4.1 Work

Nested cross validation method is used on three classifiers namely Random forest, Support vector and the Decision tree. Scikit-learn’s implementations are used [3, 4, 5]. Because of the fact that the complexity increases linearly with the number of tested parameters, the number of parameters are kept small, 2 per classifier. The parameters are (`n_estimators` $\in \{5, 50\}$), (`kernel` $\in \{\text{linear}, \text{rbf}\}$) and (`criterion` $\in \{\text{gini}, \text{entropy}\}$) for the classifiers respectively. `n_estimators` is the number of trees randomly generated in Random

forest. `criterion` is the impurity criterion, the criterion used to choose the node among the remaining instances during branching.

Accuracy and f1 metrics are used in assessment. A plural version of the class in part 2 is used, namely `EstimatorsWithAPreprocessing`. This behaves similar to the singular case, except that it fits training data to multiple classifiers, and multiple predictions are recorded at each run, for each (Estimator, Metric) pair. Furthermore, `MinMaxScaler` is preferred for the preprocessor [2]. The data is scaled to between and including -1 and 1. In addition, unlike other estimators, the Random forest estimator involves bit of randomness. In order to alleviate this, all runs for this classifier are done 5 times, on the same data. One may see this in the `times` parameter of the function `nestedCV` function.

The experiment is as follows. At each run in the inner loop (`RepeatedStratifiedKFold` with 5 splits and 5 repeats) the data is transformed and each estimator is fit to the data, then the estimators prediction scores are saved as mentioned. At the end of each split, the best parameters are saved with their scores (for both metrics, the highest score gives the best). This is repeated for each split in the outer loop (`RepeatedStratifiedKFold` with 3 splits and 5 repeats). Average of the splits calculated in the outer loop is also saved.

4.2 Results

The results are in tables 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49. The outer loop has 15 runs (3 splits with 5 repeats). There are 3 classifiers tested. From tables 3 to 47 (3 times 15, 45 in total), for each table one outer split and an estimator is chosen and their results for that outer split is recorded in that table. In table 48, the best parameters for the given (estimator, metric) is noted in rows with their scores. Regarding the randomness of the Random forest, note that these scores may be numerically different from the ones because the algorithm fits a new estimator with the best parameters. In table 49, the mean of the scores for all outer splits are given, representative of the algorithm.

As expected, as the number of estimators increase, Random forest performs better. One may see this in the table 48. From the same table, one may deduce that the dataset may not be linearly separable. RBF outnumbers the linear kernel in the results. For the parameters of the Decision tree, both criteria output similar results. Therefore, a statistical test may fail and hence the best parameters for a single split may be misleading.

In the table 49, both Random forest and SVC perform similar whereas the Decision tree does worse. As discussed, this could be due to the fact that more Decision trees give better results. Trivially, Decision tree is a single estimator compared to the Random forest.

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.6567164179104478

1	RandomForestClassifier	accuracy	5	0.6865671641791045
1	RandomForestClassifier	accuracy	5	0.6716417910447762
1	RandomForestClassifier	accuracy	5	0.7238805970149254
1	RandomForestClassifier	accuracy	50	0.7238805970149254
1	RandomForestClassifier	accuracy	50	0.7164179104477612
1	RandomForestClassifier	accuracy	50	0.7164179104477612
1	RandomForestClassifier	accuracy	50	0.7164179104477612
2	RandomForestClassifier	accuracy	5	0.7443609022556391
2	RandomForestClassifier	accuracy	5	0.7443609022556391
2	RandomForestClassifier	accuracy	5	0.7293233082706767
2	RandomForestClassifier	accuracy	5	0.6390977443609023
2	RandomForestClassifier	accuracy	50	0.7593984962406015
2	RandomForestClassifier	accuracy	50	0.7518796992481203
2	RandomForestClassifier	accuracy	50	0.7593984962406015
2	RandomForestClassifier	accuracy	50	0.7593984962406015
3	RandomForestClassifier	accuracy	5	0.6766917293233082
3	RandomForestClassifier	accuracy	5	0.6992481203007519
3	RandomForestClassifier	accuracy	5	0.6766917293233082
3	RandomForestClassifier	accuracy	5	0.6992481203007519
3	RandomForestClassifier	accuracy	50	0.7593984962406015
3	RandomForestClassifier	accuracy	50	0.7669172932330827
3	RandomForestClassifier	accuracy	50	0.7518796992481203
3	RandomForestClassifier	accuracy	50	0.7518796992481203
4	RandomForestClassifier	accuracy	5	0.7368421052631579
4	RandomForestClassifier	accuracy	5	0.7142857142857143
4	RandomForestClassifier	accuracy	5	0.6842105263157895
4	RandomForestClassifier	accuracy	5	0.7593984962406015
4	RandomForestClassifier	accuracy	50	0.7593984962406015
4	RandomForestClassifier	accuracy	50	0.7669172932330827
4	RandomForestClassifier	accuracy	50	0.7593984962406015
4	RandomForestClassifier	accuracy	50	0.7293233082706767
5	RandomForestClassifier	accuracy	5	0.7744360902255639
5	RandomForestClassifier	accuracy	5	0.7142857142857143
5	RandomForestClassifier	accuracy	5	0.7142857142857143
5	RandomForestClassifier	accuracy	5	0.7293233082706767
5	RandomForestClassifier	accuracy	50	0.7744360902255639
5	RandomForestClassifier	accuracy	50	0.7518796992481203
5	RandomForestClassifier	accuracy	50	0.7443609022556391
5	RandomForestClassifier	accuracy	50	0.7593984962406015
6	RandomForestClassifier	accuracy	5	0.6940298507462687
6	RandomForestClassifier	accuracy	5	0.6567164179104478
6	RandomForestClassifier	accuracy	5	0.6716417910447762
6	RandomForestClassifier	accuracy	5	0.6268656716417911

6	RandomForestClassifier	accuracy	50	0.7313432835820896
6	RandomForestClassifier	accuracy	50	0.7089552238805971
6	RandomForestClassifier	accuracy	50	0.6940298507462687
6	RandomForestClassifier	accuracy	50	0.6940298507462687
7	RandomForestClassifier	accuracy	5	0.7293233082706767
7	RandomForestClassifier	accuracy	5	0.6766917293233082
7	RandomForestClassifier	accuracy	5	0.7142857142857143
7	RandomForestClassifier	accuracy	5	0.6616541353383458
7	RandomForestClassifier	accuracy	50	0.7894736842105263
7	RandomForestClassifier	accuracy	50	0.7894736842105263
7	RandomForestClassifier	accuracy	50	0.8045112781954887
7	RandomForestClassifier	accuracy	50	0.7969924812030075
8	RandomForestClassifier	accuracy	5	0.7142857142857143
8	RandomForestClassifier	accuracy	5	0.6842105263157895
8	RandomForestClassifier	accuracy	5	0.7518796992481203
8	RandomForestClassifier	accuracy	5	0.7744360902255639
8	RandomForestClassifier	accuracy	50	0.7669172932330827
8	RandomForestClassifier	accuracy	50	0.7518796992481203
8	RandomForestClassifier	accuracy	50	0.7593984962406015
8	RandomForestClassifier	accuracy	50	0.7443609022556391
9	RandomForestClassifier	accuracy	5	0.6917293233082706
9	RandomForestClassifier	accuracy	5	0.6917293233082706
9	RandomForestClassifier	accuracy	5	0.6842105263157895
9	RandomForestClassifier	accuracy	5	0.6992481203007519
9	RandomForestClassifier	accuracy	50	0.7744360902255639
9	RandomForestClassifier	accuracy	50	0.7593984962406015
9	RandomForestClassifier	accuracy	50	0.7744360902255639
9	RandomForestClassifier	accuracy	50	0.7819548872180451
10	RandomForestClassifier	accuracy	5	0.7593984962406015
10	RandomForestClassifier	accuracy	5	0.706766917293233
10	RandomForestClassifier	accuracy	5	0.6917293233082706
10	RandomForestClassifier	accuracy	5	0.6691729323308271
10	RandomForestClassifier	accuracy	50	0.7819548872180451
10	RandomForestClassifier	accuracy	50	0.7819548872180451
10	RandomForestClassifier	accuracy	50	0.7819548872180451
10	RandomForestClassifier	accuracy	50	0.7894736842105263
11	RandomForestClassifier	accuracy	5	0.746268656716418
11	RandomForestClassifier	accuracy	5	0.7164179104477612
11	RandomForestClassifier	accuracy	5	0.6865671641791045
11	RandomForestClassifier	accuracy	5	0.7014925373134329
11	RandomForestClassifier	accuracy	50	0.7761194029850746
11	RandomForestClassifier	accuracy	50	0.7313432835820896
11	RandomForestClassifier	accuracy	50	0.746268656716418

11	RandomForestClassifier	accuracy	50	0.7686567164179104
12	RandomForestClassifier	accuracy	5	0.7218045112781954
12	RandomForestClassifier	accuracy	5	0.6390977443609023
12	RandomForestClassifier	accuracy	5	0.7593984962406015
12	RandomForestClassifier	accuracy	5	0.7443609022556391
12	RandomForestClassifier	accuracy	50	0.7293233082706767
12	RandomForestClassifier	accuracy	50	0.706766917293233
12	RandomForestClassifier	accuracy	50	0.706766917293233
12	RandomForestClassifier	accuracy	50	0.7443609022556391
13	RandomForestClassifier	accuracy	5	0.6842105263157895
13	RandomForestClassifier	accuracy	5	0.6842105263157895
13	RandomForestClassifier	accuracy	5	0.631578947368421
13	RandomForestClassifier	accuracy	5	0.6691729323308271
13	RandomForestClassifier	accuracy	50	0.7669172932330827
13	RandomForestClassifier	accuracy	50	0.7894736842105263
13	RandomForestClassifier	accuracy	50	0.7819548872180451
13	RandomForestClassifier	accuracy	50	0.7669172932330827
14	RandomForestClassifier	accuracy	5	0.6917293233082706
14	RandomForestClassifier	accuracy	5	0.6917293233082706
14	RandomForestClassifier	accuracy	5	0.7819548872180451
14	RandomForestClassifier	accuracy	5	0.7744360902255639
14	RandomForestClassifier	accuracy	50	0.7894736842105263
14	RandomForestClassifier	accuracy	50	0.7744360902255639
14	RandomForestClassifier	accuracy	50	0.7744360902255639
14	RandomForestClassifier	accuracy	50	0.7969924812030075
15	RandomForestClassifier	accuracy	5	0.6992481203007519
15	RandomForestClassifier	accuracy	5	0.6917293233082706
15	RandomForestClassifier	accuracy	5	0.7368421052631579
15	RandomForestClassifier	accuracy	5	0.7368421052631579
15	RandomForestClassifier	accuracy	50	0.7368421052631579
15	RandomForestClassifier	accuracy	50	0.7518796992481203
15	RandomForestClassifier	accuracy	50	0.7518796992481203
15	RandomForestClassifier	accuracy	50	0.7218045112781954
16	RandomForestClassifier	accuracy	5	0.664179104477612
16	RandomForestClassifier	accuracy	5	0.6417910447761194
16	RandomForestClassifier	accuracy	5	0.6940298507462687
16	RandomForestClassifier	accuracy	5	0.6940298507462687
16	RandomForestClassifier	accuracy	50	0.7313432835820896
16	RandomForestClassifier	accuracy	50	0.7388059701492538
16	RandomForestClassifier	accuracy	50	0.7089552238805971
16	RandomForestClassifier	accuracy	50	0.7089552238805971
17	RandomForestClassifier	accuracy	5	0.7293233082706767
17	RandomForestClassifier	accuracy	5	0.6917293233082706

17	RandomForestClassifier	accuracy	5	0.7293233082706767
17	RandomForestClassifier	accuracy	5	0.7218045112781954
17	RandomForestClassifier	accuracy	50	0.7218045112781954
17	RandomForestClassifier	accuracy	50	0.7293233082706767
17	RandomForestClassifier	accuracy	50	0.7142857142857143
17	RandomForestClassifier	accuracy	50	0.7368421052631579
18	RandomForestClassifier	accuracy	5	0.7142857142857143
18	RandomForestClassifier	accuracy	5	0.7293233082706767
18	RandomForestClassifier	accuracy	5	0.7218045112781954
18	RandomForestClassifier	accuracy	5	0.6992481203007519
18	RandomForestClassifier	accuracy	50	0.7894736842105263
18	RandomForestClassifier	accuracy	50	0.7368421052631579
18	RandomForestClassifier	accuracy	50	0.7744360902255639
18	RandomForestClassifier	accuracy	50	0.7218045112781954
19	RandomForestClassifier	accuracy	5	0.6240601503759399
19	RandomForestClassifier	accuracy	5	0.7218045112781954
19	RandomForestClassifier	accuracy	5	0.7593984962406015
19	RandomForestClassifier	accuracy	5	0.6917293233082706
19	RandomForestClassifier	accuracy	50	0.7142857142857143
19	RandomForestClassifier	accuracy	50	0.7593984962406015
19	RandomForestClassifier	accuracy	50	0.7443609022556391
19	RandomForestClassifier	accuracy	50	0.7819548872180451
20	RandomForestClassifier	accuracy	5	0.6766917293233082
20	RandomForestClassifier	accuracy	5	0.6541353383458647
20	RandomForestClassifier	accuracy	5	0.6766917293233082
20	RandomForestClassifier	accuracy	5	0.706766917293233
20	RandomForestClassifier	accuracy	50	0.7669172932330827
20	RandomForestClassifier	accuracy	50	0.7368421052631579
20	RandomForestClassifier	accuracy	50	0.7518796992481203
20	RandomForestClassifier	accuracy	50	0.7518796992481203
21	RandomForestClassifier	accuracy	5	0.7388059701492538
21	RandomForestClassifier	accuracy	5	0.6940298507462687
21	RandomForestClassifier	accuracy	5	0.753731343283582
21	RandomForestClassifier	accuracy	5	0.6865671641791045
21	RandomForestClassifier	accuracy	50	0.746268656716418
21	RandomForestClassifier	accuracy	50	0.7611940298507462
21	RandomForestClassifier	accuracy	50	0.753731343283582
21	RandomForestClassifier	accuracy	50	0.7686567164179104
22	RandomForestClassifier	accuracy	5	0.7142857142857143
22	RandomForestClassifier	accuracy	5	0.6992481203007519
22	RandomForestClassifier	accuracy	5	0.6691729323308271
22	RandomForestClassifier	accuracy	5	0.7142857142857143
22	RandomForestClassifier	accuracy	50	0.7744360902255639

22	RandomForestClassifier	accuracy	50	0.7593984962406015
22	RandomForestClassifier	accuracy	50	0.7593984962406015
22	RandomForestClassifier	accuracy	50	0.7819548872180451
23	RandomForestClassifier	accuracy	5	0.6766917293233082
23	RandomForestClassifier	accuracy	5	0.6616541353383458
23	RandomForestClassifier	accuracy	5	0.7293233082706767
23	RandomForestClassifier	accuracy	5	0.7443609022556391
23	RandomForestClassifier	accuracy	50	0.7293233082706767
23	RandomForestClassifier	accuracy	50	0.7443609022556391
23	RandomForestClassifier	accuracy	50	0.7218045112781954
23	RandomForestClassifier	accuracy	50	0.7218045112781954
24	RandomForestClassifier	accuracy	5	0.6691729323308271
24	RandomForestClassifier	accuracy	5	0.7218045112781954
24	RandomForestClassifier	accuracy	5	0.7218045112781954
24	RandomForestClassifier	accuracy	5	0.706766917293233
24	RandomForestClassifier	accuracy	50	0.7142857142857143
24	RandomForestClassifier	accuracy	50	0.7142857142857143
24	RandomForestClassifier	accuracy	50	0.6917293233082706
24	RandomForestClassifier	accuracy	50	0.7368421052631579
25	RandomForestClassifier	accuracy	5	0.7443609022556391
25	RandomForestClassifier	accuracy	5	0.706766917293233
25	RandomForestClassifier	accuracy	5	0.7368421052631579
25	RandomForestClassifier	accuracy	5	0.6992481203007519
25	RandomForestClassifier	accuracy	50	0.7443609022556391
25	RandomForestClassifier	accuracy	50	0.7744360902255639
25	RandomForestClassifier	accuracy	50	0.7744360902255639
25	RandomForestClassifier	accuracy	50	0.7443609022556391
1	RandomForestClassifier	f1	5	0.77
1	RandomForestClassifier	f1	5	0.79
1	RandomForestClassifier	f1	5	0.7708333333333333
1	RandomForestClassifier	f1	5	0.8159203980099503
1	RandomForestClassifier	f1	50	0.8195121951219513
1	RandomForestClassifier	f1	50	0.8099999999999999
1	RandomForestClassifier	f1	50	0.8118811881188118
1	RandomForestClassifier	f1	50	0.8155339805825244
2	RandomForestClassifier	f1	5	0.826530612244898
2	RandomForestClassifier	f1	5	0.826530612244898
2	RandomForestClassifier	f1	5	0.8181818181818182
2	RandomForestClassifier	f1	5	0.7575757575757576
2	RandomForestClassifier	f1	50	0.8431372549019608
2	RandomForestClassifier	f1	50	0.835820895522388
2	RandomForestClassifier	f1	50	0.8415841584158414
2	RandomForestClassifier	f1	50	0.8431372549019608

3	RandomForestClassifier	f1	5	0.7650273224043715
3	RandomForestClassifier	f1	5	0.7979797979797979
3	RandomForestClassifier	f1	5	0.770053475935829
3	RandomForestClassifier	f1	5	0.7872340425531914
3	RandomForestClassifier	f1	50	0.836734693877551
3	RandomForestClassifier	f1	50	0.8426395939086294
3	RandomForestClassifier	f1	50	0.835820895522388
3	RandomForestClassifier	f1	50	0.8341708542713568
4	RandomForestClassifier	f1	5	0.8241206030150753
4	RandomForestClassifier	f1	5	0.81
4	RandomForestClassifier	f1	5	0.79
4	RandomForestClassifier	f1	5	0.8383838383838383
4	RandomForestClassifier	f1	50	0.84
4	RandomForestClassifier	f1	50	0.8457711442786069
4	RandomForestClassifier	f1	50	0.84
4	RandomForestClassifier	f1	50	0.82
5	RandomForestClassifier	f1	5	0.845360824742268
5	RandomForestClassifier	f1	5	0.8118811881188119
5	RandomForestClassifier	f1	5	0.7978723404255319
5	RandomForestClassifier	f1	5	0.8181818181818182
5	RandomForestClassifier	f1	50	0.8500000000000001
5	RandomForestClassifier	f1	50	0.8405797101449276
5	RandomForestClassifier	f1	50	0.8333333333333334
5	RandomForestClassifier	f1	50	0.8446601941747574
6	RandomForestClassifier	f1	5	0.7939698492462312
6	RandomForestClassifier	f1	5	0.7745098039215685
6	RandomForestClassifier	f1	5	0.7777777777777779
6	RandomForestClassifier	f1	5	0.7422680412371133
6	RandomForestClassifier	f1	50	0.8217821782178217
6	RandomForestClassifier	f1	50	0.8115942028985508
6	RandomForestClassifier	f1	50	0.7980295566502462
6	RandomForestClassifier	f1	50	0.7960199004975125
7	RandomForestClassifier	f1	5	0.8163265306122449
7	RandomForestClassifier	f1	5	0.7817258883248731
7	RandomForestClassifier	f1	5	0.8020833333333334
7	RandomForestClassifier	f1	5	0.7761194029850746
7	RandomForestClassifier	f1	50	0.8585858585858587
7	RandomForestClassifier	f1	50	0.86
7	RandomForestClassifier	f1	50	0.8686868686868686
7	RandomForestClassifier	f1	50	0.8656716417910448
8	RandomForestClassifier	f1	5	0.81
8	RandomForestClassifier	f1	5	0.7835051546391754
8	RandomForestClassifier	f1	5	0.8272251308900525

8	RandomForestClassifier	f1	5	0.845360824742268
8	RandomForestClassifier	f1	50	0.848780487804878
8	RandomForestClassifier	f1	50	0.8421052631578947
8	RandomForestClassifier	f1	50	0.8461538461538463
8	RandomForestClassifier	f1	50	0.8365384615384615
9	RandomForestClassifier	f1	5	0.7875647668393783
9	RandomForestClassifier	f1	5	0.7918781725888324
9	RandomForestClassifier	f1	5	0.787878787878788
9	RandomForestClassifier	f1	5	0.803921568627451
9	RandomForestClassifier	f1	50	0.8529411764705881
9	RandomForestClassifier	f1	50	0.8431372549019608
9	RandomForestClassifier	f1	50	0.8514851485148515
9	RandomForestClassifier	f1	50	0.8571428571428572
10	RandomForestClassifier	f1	5	0.8297872340425532
10	RandomForestClassifier	f1	5	0.7979274611398963
10	RandomForestClassifier	f1	5	0.7897435897435897
10	RandomForestClassifier	f1	5	0.7755102040816327
10	RandomForestClassifier	f1	50	0.852791878172589
10	RandomForestClassifier	f1	50	0.8512820512820513
10	RandomForestClassifier	f1	50	0.8557213930348259
10	RandomForestClassifier	f1	50	0.8571428571428571
11	RandomForestClassifier	f1	5	0.8282828282828283
11	RandomForestClassifier	f1	5	0.8080808080808081
11	RandomForestClassifier	f1	5	0.7920792079207921
11	RandomForestClassifier	f1	5	0.8
11	RandomForestClassifier	f1	50	0.854368932038835
11	RandomForestClassifier	f1	50	0.8252427184466019
11	RandomForestClassifier	f1	50	0.8365384615384615
11	RandomForestClassifier	f1	50	0.8530805687203793
12	RandomForestClassifier	f1	5	0.8102564102564103
12	RandomForestClassifier	f1	5	0.7551020408163266
12	RandomForestClassifier	f1	5	0.8350515463917527
12	RandomForestClassifier	f1	5	0.8316831683168318
12	RandomForestClassifier	f1	50	0.8252427184466019
12	RandomForestClassifier	f1	50	0.8115942028985507
12	RandomForestClassifier	f1	50	0.8078817733990148
12	RandomForestClassifier	f1	50	0.8316831683168318
13	RandomForestClassifier	f1	5	0.7789473684210526
13	RandomForestClassifier	f1	5	0.7717391304347825
13	RandomForestClassifier	f1	5	0.7262569832402235
13	RandomForestClassifier	f1	5	0.7755102040816327
13	RandomForestClassifier	f1	50	0.841025641025641
13	RandomForestClassifier	f1	50	0.8556701030927835

13	RandomForestClassifier	f1	50	0.8481675392670157
13	RandomForestClassifier	f1	50	0.8442211055276382
14	RandomForestClassifier	f1	5	0.7939698492462313
14	RandomForestClassifier	f1	5	0.7853403141361257
14	RandomForestClassifier	f1	5	0.8542713567839196
14	RandomForestClassifier	f1	5	0.846938775510204
14	RandomForestClassifier	f1	50	0.8585858585858587
14	RandomForestClassifier	f1	50	0.8484848484848486
14	RandomForestClassifier	f1	50	0.854368932038835
14	RandomForestClassifier	f1	50	0.8682926829268293
15	RandomForestClassifier	f1	5	0.7999999999999999
15	RandomForestClassifier	f1	5	0.7999999999999999
15	RandomForestClassifier	f1	5	0.8275862068965516
15	RandomForestClassifier	f1	5	0.8241206030150753
15	RandomForestClassifier	f1	50	0.8275862068965516
15	RandomForestClassifier	f1	50	0.8390243902439024
15	RandomForestClassifier	f1	50	0.8374384236453202
15	RandomForestClassifier	f1	50	0.8195121951219512
16	RandomForestClassifier	f1	5	0.766839378238342
16	RandomForestClassifier	f1	5	0.7575757575757577
16	RandomForestClassifier	f1	5	0.7918781725888325
16	RandomForestClassifier	f1	5	0.7853403141361256
16	RandomForestClassifier	f1	50	0.8217821782178217
16	RandomForestClassifier	f1	50	0.8241206030150755
16	RandomForestClassifier	f1	50	0.8020304568527918
16	RandomForestClassifier	f1	50	0.7979274611398963
17	RandomForestClassifier	f1	5	0.8085106382978724
17	RandomForestClassifier	f1	5	0.7897435897435897
17	RandomForestClassifier	f1	5	0.8181818181818182
17	RandomForestClassifier	f1	5	0.8121827411167513
17	RandomForestClassifier	f1	50	0.8177339901477831
17	RandomForestClassifier	f1	50	0.82
17	RandomForestClassifier	f1	50	0.8080808080808081
17	RandomForestClassifier	f1	50	0.8258706467661692
18	RandomForestClassifier	f1	5	0.8020833333333334
18	RandomForestClassifier	f1	5	0.8163265306122449
18	RandomForestClassifier	f1	5	0.8121827411167513
18	RandomForestClassifier	f1	5	0.7938144329896908
18	RandomForestClassifier	f1	50	0.8627450980392158
18	RandomForestClassifier	f1	50	0.8292682926829268
18	RandomForestClassifier	f1	50	0.8529411764705881
18	RandomForestClassifier	f1	50	0.8195121951219512
19	RandomForestClassifier	f1	5	0.7448979591836735

19	RandomForestClassifier	f1	5	0.8140703517587939
19	RandomForestClassifier	f1	5	0.8431372549019608
19	RandomForestClassifier	f1	5	0.7939698492462313
19	RandomForestClassifier	f1	50	0.8118811881188119
19	RandomForestClassifier	f1	50	0.8415841584158414
19	RandomForestClassifier	f1	50	0.8316831683168318
19	RandomForestClassifier	f1	50	0.8571428571428572
20	RandomForestClassifier	f1	5	0.77720207253886
20	RandomForestClassifier	f1	5	0.7653061224489796
20	RandomForestClassifier	f1	5	0.77720207253886
20	RandomForestClassifier	f1	5	0.7979274611398963
20	RandomForestClassifier	f1	50	0.8472906403940887
20	RandomForestClassifier	f1	50	0.8292682926829268
20	RandomForestClassifier	f1	50	0.835820895522388
20	RandomForestClassifier	f1	50	0.8390243902439024
21	RandomForestClassifier	f1	5	0.8223350253807107
21	RandomForestClassifier	f1	5	0.7980295566502462
21	RandomForestClassifier	f1	5	0.8358208955223881
21	RandomForestClassifier	f1	5	0.7920792079207921
21	RandomForestClassifier	f1	50	0.8316831683168316
21	RandomForestClassifier	f1	50	0.8415841584158417
21	RandomForestClassifier	f1	50	0.8390243902439024
21	RandomForestClassifier	f1	50	0.8472906403940887
22	RandomForestClassifier	f1	5	0.8
22	RandomForestClassifier	f1	5	0.801980198019802
22	RandomForestClassifier	f1	5	0.78
22	RandomForestClassifier	f1	5	0.7956989247311826
22	RandomForestClassifier	f1	50	0.8529411764705881
22	RandomForestClassifier	f1	50	0.8431372549019608
22	RandomForestClassifier	f1	50	0.8431372549019608
22	RandomForestClassifier	f1	50	0.8571428571428572
23	RandomForestClassifier	f1	5	0.7817258883248731
23	RandomForestClassifier	f1	5	0.7619047619047619
23	RandomForestClassifier	f1	5	0.823529411764706
23	RandomForestClassifier	f1	5	0.8316831683168318
23	RandomForestClassifier	f1	50	0.82
23	RandomForestClassifier	f1	50	0.8316831683168318
23	RandomForestClassifier	f1	50	0.8102564102564103
23	RandomForestClassifier	f1	50	0.8159203980099504
24	RandomForestClassifier	f1	5	0.7755102040816327
24	RandomForestClassifier	f1	5	0.8121827411167513
24	RandomForestClassifier	f1	5	0.8195121951219512
24	RandomForestClassifier	f1	5	0.7999999999999999

24	RandomForestClassifier	f1	50	0.81
24	RandomForestClassifier	f1	50	0.8118811881188119
24	RandomForestClassifier	f1	50	0.8019323671497586
24	RandomForestClassifier	f1	50	0.8292682926829268
25	RandomForestClassifier	f1	5	0.8316831683168318
25	RandomForestClassifier	f1	5	0.7999999999999999
25	RandomForestClassifier	f1	5	0.8258706467661692
25	RandomForestClassifier	f1	5	0.8058252427184466
25	RandomForestClassifier	f1	50	0.8333333333333334
25	RandomForestClassifier	f1	50	0.8514851485148515
25	RandomForestClassifier	f1	50	0.8529411764705881
25	RandomForestClassifier	f1	50	0.8349514563106796

Table 3: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.753731343283582
1	SVC	accuracy	linear	0.753731343283582
1	SVC	accuracy	rbf	0.753731343283582
1	SVC	accuracy	rbf	0.753731343283582
1	SVC	accuracy	linear	0.753731343283582
1	SVC	accuracy	linear	0.753731343283582
1	SVC	accuracy	rbf	0.753731343283582
1	SVC	accuracy	rbf	0.753731343283582
2	SVC	accuracy	linear	0.7443609022556391
2	SVC	accuracy	linear	0.7443609022556391
2	SVC	accuracy	rbf	0.7443609022556391
2	SVC	accuracy	rbf	0.7443609022556391
2	SVC	accuracy	linear	0.7443609022556391
2	SVC	accuracy	linear	0.7443609022556391
2	SVC	accuracy	rbf	0.7443609022556391
2	SVC	accuracy	rbf	0.7443609022556391
3	SVC	accuracy	linear	0.7593984962406015
3	SVC	accuracy	linear	0.7593984962406015
3	SVC	accuracy	rbf	0.7518796992481203
3	SVC	accuracy	rbf	0.7518796992481203
3	SVC	accuracy	linear	0.7593984962406015
3	SVC	accuracy	linear	0.7593984962406015
3	SVC	accuracy	rbf	0.7518796992481203
3	SVC	accuracy	rbf	0.7518796992481203
4	SVC	accuracy	linear	0.7443609022556391

4	SVC	accuracy	linear	0.7443609022556391
4	SVC	accuracy	rbf	0.7218045112781954
4	SVC	accuracy	rbf	0.7218045112781954
4	SVC	accuracy	linear	0.7443609022556391
4	SVC	accuracy	linear	0.7443609022556391
4	SVC	accuracy	rbf	0.7218045112781954
4	SVC	accuracy	rbf	0.7218045112781954
5	SVC	accuracy	linear	0.7443609022556391
5	SVC	accuracy	linear	0.7443609022556391
5	SVC	accuracy	rbf	0.7593984962406015
5	SVC	accuracy	rbf	0.7593984962406015
5	SVC	accuracy	linear	0.7443609022556391
5	SVC	accuracy	linear	0.7443609022556391
5	SVC	accuracy	rbf	0.7593984962406015
5	SVC	accuracy	rbf	0.7593984962406015
6	SVC	accuracy	linear	0.7611940298507462
6	SVC	accuracy	linear	0.7611940298507462
6	SVC	accuracy	rbf	0.7164179104477612
6	SVC	accuracy	rbf	0.7164179104477612
6	SVC	accuracy	linear	0.7611940298507462
6	SVC	accuracy	linear	0.7611940298507462
6	SVC	accuracy	rbf	0.7164179104477612
6	SVC	accuracy	rbf	0.7164179104477612
7	SVC	accuracy	linear	0.7368421052631579
7	SVC	accuracy	linear	0.7368421052631579
7	SVC	accuracy	rbf	0.7894736842105263
7	SVC	accuracy	rbf	0.7894736842105263
7	SVC	accuracy	linear	0.7368421052631579
7	SVC	accuracy	linear	0.7368421052631579
7	SVC	accuracy	rbf	0.7894736842105263
7	SVC	accuracy	rbf	0.7894736842105263
8	SVC	accuracy	linear	0.7819548872180451
8	SVC	accuracy	linear	0.7819548872180451
8	SVC	accuracy	rbf	0.7368421052631579
8	SVC	accuracy	rbf	0.7368421052631579
8	SVC	accuracy	linear	0.7819548872180451
8	SVC	accuracy	linear	0.7819548872180451
8	SVC	accuracy	rbf	0.7368421052631579
8	SVC	accuracy	rbf	0.7368421052631579
9	SVC	accuracy	linear	0.7819548872180451
9	SVC	accuracy	linear	0.7819548872180451
9	SVC	accuracy	rbf	0.7669172932330827
9	SVC	accuracy	rbf	0.7669172932330827

9	SVC	accuracy	linear	0.7819548872180451
9	SVC	accuracy	linear	0.7819548872180451
9	SVC	accuracy	rbf	0.7669172932330827
9	SVC	accuracy	rbf	0.7669172932330827
10	SVC	accuracy	linear	0.7518796992481203
10	SVC	accuracy	linear	0.7518796992481203
10	SVC	accuracy	rbf	0.7669172932330827
10	SVC	accuracy	rbf	0.7669172932330827
10	SVC	accuracy	linear	0.7518796992481203
10	SVC	accuracy	linear	0.7518796992481203
10	SVC	accuracy	rbf	0.7669172932330827
10	SVC	accuracy	rbf	0.7669172932330827
11	SVC	accuracy	linear	0.7388059701492538
11	SVC	accuracy	linear	0.7388059701492538
11	SVC	accuracy	rbf	0.753731343283582
11	SVC	accuracy	rbf	0.753731343283582
11	SVC	accuracy	linear	0.7388059701492538
11	SVC	accuracy	linear	0.7388059701492538
11	SVC	accuracy	rbf	0.753731343283582
11	SVC	accuracy	rbf	0.753731343283582
12	SVC	accuracy	linear	0.7669172932330827
12	SVC	accuracy	linear	0.7669172932330827
12	SVC	accuracy	rbf	0.7218045112781954
12	SVC	accuracy	rbf	0.7218045112781954
12	SVC	accuracy	linear	0.7669172932330827
12	SVC	accuracy	linear	0.7669172932330827
12	SVC	accuracy	rbf	0.7218045112781954
12	SVC	accuracy	rbf	0.7218045112781954
13	SVC	accuracy	linear	0.7669172932330827
13	SVC	accuracy	linear	0.7669172932330827
13	SVC	accuracy	rbf	0.8120300751879699
13	SVC	accuracy	rbf	0.8120300751879699
13	SVC	accuracy	linear	0.7669172932330827
13	SVC	accuracy	linear	0.7669172932330827
13	SVC	accuracy	rbf	0.8120300751879699
13	SVC	accuracy	rbf	0.8120300751879699
14	SVC	accuracy	linear	0.8045112781954887
14	SVC	accuracy	linear	0.8045112781954887
14	SVC	accuracy	rbf	0.8045112781954887
14	SVC	accuracy	rbf	0.8045112781954887
14	SVC	accuracy	linear	0.8045112781954887
14	SVC	accuracy	linear	0.8045112781954887
14	SVC	accuracy	rbf	0.8045112781954887

14	SVC	accuracy	rbf	0.8045112781954887
15	SVC	accuracy	linear	0.7142857142857143
15	SVC	accuracy	linear	0.7142857142857143
15	SVC	accuracy	rbf	0.7293233082706767
15	SVC	accuracy	rbf	0.7293233082706767
15	SVC	accuracy	linear	0.7142857142857143
15	SVC	accuracy	linear	0.7142857142857143
15	SVC	accuracy	rbf	0.7293233082706767
15	SVC	accuracy	rbf	0.7293233082706767
16	SVC	accuracy	linear	0.7313432835820896
16	SVC	accuracy	linear	0.7313432835820896
16	SVC	accuracy	rbf	0.7164179104477612
16	SVC	accuracy	rbf	0.7164179104477612
16	SVC	accuracy	linear	0.7313432835820896
16	SVC	accuracy	linear	0.7313432835820896
16	SVC	accuracy	rbf	0.7164179104477612
16	SVC	accuracy	rbf	0.7164179104477612
17	SVC	accuracy	linear	0.7443609022556391
17	SVC	accuracy	linear	0.7443609022556391
17	SVC	accuracy	rbf	0.7293233082706767
17	SVC	accuracy	rbf	0.7293233082706767
17	SVC	accuracy	linear	0.7443609022556391
17	SVC	accuracy	linear	0.7443609022556391
17	SVC	accuracy	rbf	0.7293233082706767
17	SVC	accuracy	rbf	0.7293233082706767
18	SVC	accuracy	linear	0.7443609022556391
18	SVC	accuracy	linear	0.7443609022556391
18	SVC	accuracy	rbf	0.7744360902255639
18	SVC	accuracy	rbf	0.7744360902255639
18	SVC	accuracy	linear	0.7443609022556391
18	SVC	accuracy	linear	0.7443609022556391
18	SVC	accuracy	rbf	0.7744360902255639
18	SVC	accuracy	rbf	0.7744360902255639
19	SVC	accuracy	linear	0.7518796992481203
19	SVC	accuracy	linear	0.7518796992481203
19	SVC	accuracy	rbf	0.7669172932330827
19	SVC	accuracy	rbf	0.7669172932330827
19	SVC	accuracy	linear	0.7518796992481203
19	SVC	accuracy	linear	0.7518796992481203
19	SVC	accuracy	rbf	0.7669172932330827
19	SVC	accuracy	rbf	0.7669172932330827
20	SVC	accuracy	linear	0.7819548872180451
20	SVC	accuracy	linear	0.7819548872180451

20	SVC	accuracy	rbf	0.7744360902255639
20	SVC	accuracy	rbf	0.7744360902255639
20	SVC	accuracy	linear	0.7819548872180451
20	SVC	accuracy	linear	0.7819548872180451
20	SVC	accuracy	rbf	0.7744360902255639
20	SVC	accuracy	rbf	0.7744360902255639
21	SVC	accuracy	linear	0.7611940298507462
21	SVC	accuracy	linear	0.7611940298507462
21	SVC	accuracy	rbf	0.7611940298507462
21	SVC	accuracy	rbf	0.7611940298507462
21	SVC	accuracy	linear	0.7611940298507462
21	SVC	accuracy	linear	0.7611940298507462
21	SVC	accuracy	rbf	0.7611940298507462
21	SVC	accuracy	rbf	0.7611940298507462
22	SVC	accuracy	linear	0.7744360902255639
22	SVC	accuracy	linear	0.7744360902255639
22	SVC	accuracy	rbf	0.7669172932330827
22	SVC	accuracy	rbf	0.7669172932330827
22	SVC	accuracy	linear	0.7744360902255639
22	SVC	accuracy	linear	0.7744360902255639
22	SVC	accuracy	rbf	0.7669172932330827
22	SVC	accuracy	rbf	0.7669172932330827
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	rbf	0.7744360902255639
23	SVC	accuracy	rbf	0.7744360902255639
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	rbf	0.7744360902255639
23	SVC	accuracy	rbf	0.7744360902255639
24	SVC	accuracy	linear	0.7443609022556391
24	SVC	accuracy	linear	0.7443609022556391
24	SVC	accuracy	rbf	0.7142857142857143
24	SVC	accuracy	rbf	0.7142857142857143
24	SVC	accuracy	linear	0.7443609022556391
24	SVC	accuracy	linear	0.7443609022556391
24	SVC	accuracy	rbf	0.7142857142857143
24	SVC	accuracy	rbf	0.7142857142857143
25	SVC	accuracy	linear	0.7969924812030075
25	SVC	accuracy	linear	0.7969924812030075
25	SVC	accuracy	rbf	0.7819548872180451
25	SVC	accuracy	rbf	0.7819548872180451
25	SVC	accuracy	linear	0.7969924812030075

25	SVC	accuracy	linear	0.7969924812030075
25	SVC	accuracy	rbf	0.7819548872180451
25	SVC	accuracy	rbf	0.7819548872180451
1	SVC	f1	linear	0.8290155440414508
1	SVC	f1	linear	0.8290155440414508
1	SVC	f1	rbf	0.8374384236453202
1	SVC	f1	rbf	0.8374384236453202
1	SVC	f1	linear	0.8290155440414508
1	SVC	f1	linear	0.8290155440414508
1	SVC	f1	rbf	0.8374384236453202
1	SVC	f1	rbf	0.8374384236453202
2	SVC	f1	linear	0.8247422680412373
2	SVC	f1	linear	0.8247422680412373
2	SVC	f1	rbf	0.8316831683168318
2	SVC	f1	rbf	0.8316831683168318
2	SVC	f1	linear	0.8247422680412373
2	SVC	f1	linear	0.8247422680412373
2	SVC	f1	rbf	0.8316831683168318
2	SVC	f1	rbf	0.8316831683168318
3	SVC	f1	linear	0.8279569892473119
3	SVC	f1	linear	0.8279569892473119
3	SVC	f1	rbf	0.835820895522388
3	SVC	f1	rbf	0.835820895522388
3	SVC	f1	linear	0.8279569892473119
3	SVC	f1	linear	0.8279569892473119
3	SVC	f1	rbf	0.835820895522388
3	SVC	f1	rbf	0.835820895522388
4	SVC	f1	linear	0.8247422680412373
4	SVC	f1	linear	0.8247422680412373
4	SVC	f1	rbf	0.8229665071770336
4	SVC	f1	rbf	0.8229665071770336
4	SVC	f1	linear	0.8247422680412373
4	SVC	f1	linear	0.8247422680412373
4	SVC	f1	rbf	0.8229665071770336
4	SVC	f1	rbf	0.8229665071770336
5	SVC	f1	linear	0.826530612244898
5	SVC	f1	linear	0.826530612244898
5	SVC	f1	rbf	0.8431372549019608
5	SVC	f1	rbf	0.8431372549019608
5	SVC	f1	linear	0.826530612244898
5	SVC	f1	linear	0.826530612244898
5	SVC	f1	rbf	0.8431372549019608
5	SVC	f1	rbf	0.8431372549019608

6	SVC	f1	linear	0.8400000000000001
6	SVC	f1	linear	0.8400000000000001
6	SVC	f1	rbf	0.8137254901960784
6	SVC	f1	rbf	0.8137254901960784
6	SVC	f1	linear	0.8400000000000001
6	SVC	f1	linear	0.8400000000000001
6	SVC	f1	rbf	0.8137254901960784
6	SVC	f1	rbf	0.8137254901960784
7	SVC	f1	linear	0.8205128205128205
7	SVC	f1	linear	0.8205128205128205
7	SVC	f1	rbf	0.8653846153846155
7	SVC	f1	rbf	0.8653846153846155
7	SVC	f1	linear	0.8205128205128205
7	SVC	f1	linear	0.8205128205128205
7	SVC	f1	rbf	0.8653846153846155
7	SVC	f1	rbf	0.8653846153846155
8	SVC	f1	linear	0.852791878172589
8	SVC	f1	linear	0.852791878172589
8	SVC	f1	rbf	0.832535885167464
8	SVC	f1	rbf	0.832535885167464
8	SVC	f1	linear	0.852791878172589
8	SVC	f1	linear	0.852791878172589
8	SVC	f1	rbf	0.832535885167464
8	SVC	f1	rbf	0.832535885167464
9	SVC	f1	linear	0.852791878172589
9	SVC	f1	linear	0.852791878172589
9	SVC	f1	rbf	0.8502415458937198
9	SVC	f1	rbf	0.8502415458937198
9	SVC	f1	linear	0.852791878172589
9	SVC	f1	linear	0.852791878172589
9	SVC	f1	rbf	0.8502415458937198
9	SVC	f1	rbf	0.8502415458937198
10	SVC	f1	linear	0.8307692307692308
10	SVC	f1	linear	0.8307692307692308
10	SVC	f1	rbf	0.8472906403940887
10	SVC	f1	rbf	0.8472906403940887
10	SVC	f1	linear	0.8307692307692308
10	SVC	f1	linear	0.8307692307692308
10	SVC	f1	rbf	0.8472906403940887
10	SVC	f1	rbf	0.8472906403940887
11	SVC	f1	linear	0.8223350253807107
11	SVC	f1	linear	0.8223350253807107
11	SVC	f1	rbf	0.8436018957345972

11	SVC	f1	rbf	0.8436018957345972
11	SVC	f1	linear	0.8223350253807107
11	SVC	f1	linear	0.8223350253807107
11	SVC	f1	rbf	0.8436018957345972
11	SVC	f1	rbf	0.8436018957345972
12	SVC	f1	linear	0.837696335078534
12	SVC	f1	linear	0.837696335078534
12	SVC	f1	rbf	0.8159203980099504
12	SVC	f1	rbf	0.8159203980099504
12	SVC	f1	linear	0.837696335078534
12	SVC	f1	linear	0.837696335078534
12	SVC	f1	rbf	0.8159203980099504
12	SVC	f1	rbf	0.8159203980099504
13	SVC	f1	linear	0.837696335078534
13	SVC	f1	linear	0.837696335078534
13	SVC	f1	rbf	0.8730964467005077
13	SVC	f1	rbf	0.8730964467005077
13	SVC	f1	linear	0.837696335078534
13	SVC	f1	linear	0.837696335078534
13	SVC	f1	rbf	0.8730964467005077
13	SVC	f1	rbf	0.8730964467005077
14	SVC	f1	linear	0.8686868686868686
14	SVC	f1	linear	0.8686868686868686
14	SVC	f1	rbf	0.8737864077669903
14	SVC	f1	rbf	0.8737864077669903
14	SVC	f1	linear	0.8686868686868686
14	SVC	f1	linear	0.8686868686868686
14	SVC	f1	rbf	0.8737864077669903
14	SVC	f1	rbf	0.8737864077669903
15	SVC	f1	linear	0.8061224489795918
15	SVC	f1	linear	0.8061224489795918
15	SVC	f1	rbf	0.826923076923077
15	SVC	f1	rbf	0.826923076923077
15	SVC	f1	linear	0.8061224489795918
15	SVC	f1	linear	0.8061224489795918
15	SVC	f1	rbf	0.826923076923077
15	SVC	f1	rbf	0.826923076923077
16	SVC	f1	linear	0.8200000000000001
16	SVC	f1	linear	0.8200000000000001
16	SVC	f1	rbf	0.8118811881188118
16	SVC	f1	rbf	0.8118811881188118
16	SVC	f1	linear	0.8200000000000001
16	SVC	f1	linear	0.8200000000000001

16	SVC	f1	rbf	0.8118811881188118
16	SVC	f1	rbf	0.8118811881188118
17	SVC	f1	linear	0.826530612244898
17	SVC	f1	linear	0.826530612244898
17	SVC	f1	rbf	0.82
17	SVC	f1	rbf	0.82
17	SVC	f1	linear	0.826530612244898
17	SVC	f1	linear	0.826530612244898
17	SVC	f1	rbf	0.82
17	SVC	f1	rbf	0.82
18	SVC	f1	linear	0.8316831683168318
18	SVC	f1	linear	0.8316831683168318
18	SVC	f1	rbf	0.854368932038835
18	SVC	f1	rbf	0.854368932038835
18	SVC	f1	linear	0.8316831683168318
18	SVC	f1	linear	0.8316831683168318
18	SVC	f1	rbf	0.854368932038835
18	SVC	f1	rbf	0.854368932038835
19	SVC	f1	linear	0.8290155440414508
19	SVC	f1	linear	0.8290155440414508
19	SVC	f1	rbf	0.848780487804878
19	SVC	f1	rbf	0.848780487804878
19	SVC	f1	linear	0.8290155440414508
19	SVC	f1	linear	0.8290155440414508
19	SVC	f1	rbf	0.848780487804878
19	SVC	f1	rbf	0.848780487804878
20	SVC	f1	linear	0.852791878172589
20	SVC	f1	linear	0.852791878172589
20	SVC	f1	rbf	0.8571428571428572
20	SVC	f1	rbf	0.8571428571428572
20	SVC	f1	linear	0.852791878172589
20	SVC	f1	linear	0.852791878172589
20	SVC	f1	rbf	0.8571428571428572
20	SVC	f1	rbf	0.8571428571428572
21	SVC	f1	linear	0.8383838383838383
21	SVC	f1	linear	0.8383838383838383
21	SVC	f1	rbf	0.8504672897196263
21	SVC	f1	rbf	0.8504672897196263
21	SVC	f1	linear	0.8383838383838383
21	SVC	f1	linear	0.8383838383838383
21	SVC	f1	rbf	0.8504672897196263
21	SVC	f1	rbf	0.8504672897196263
22	SVC	f1	linear	0.8484848484848486

22	SVC	f1	linear	0.8484848484848486
22	SVC	f1	rbf	0.8516746411483255
22	SVC	f1	rbf	0.8516746411483255
22	SVC	f1	linear	0.8484848484848486
22	SVC	f1	linear	0.8484848484848486
22	SVC	f1	rbf	0.8516746411483255
22	SVC	f1	rbf	0.8516746411483255
23	SVC	f1	linear	0.8163265306122449
23	SVC	f1	linear	0.8163265306122449
23	SVC	f1	rbf	0.854368932038835
23	SVC	f1	rbf	0.854368932038835
23	SVC	f1	linear	0.8163265306122449
23	SVC	f1	linear	0.8163265306122449
23	SVC	f1	rbf	0.854368932038835
23	SVC	f1	rbf	0.854368932038835
24	SVC	f1	linear	0.8247422680412373
24	SVC	f1	linear	0.8247422680412373
24	SVC	f1	rbf	0.8155339805825244
24	SVC	f1	rbf	0.8155339805825244
24	SVC	f1	linear	0.8247422680412373
24	SVC	f1	linear	0.8247422680412373
24	SVC	f1	rbf	0.8155339805825244
24	SVC	f1	rbf	0.8155339805825244
25	SVC	f1	linear	0.8615384615384616
25	SVC	f1	linear	0.8615384615384616
25	SVC	f1	rbf	0.8557213930348259
25	SVC	f1	rbf	0.8557213930348259
25	SVC	f1	linear	0.8615384615384616
25	SVC	f1	linear	0.8615384615384616
25	SVC	f1	rbf	0.8557213930348259
25	SVC	f1	rbf	0.8557213930348259

Table 4: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
1	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
1	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
1	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
1	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
1	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911

1	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
1	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
2	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
2	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
2	DecisionTreeClassifier	accuracy	gini	0.631578947368421
2	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
2	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
2	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
2	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
2	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
3	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
3	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
3	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
3	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
3	DecisionTreeClassifier	accuracy	gini	0.631578947368421
3	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
3	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
3	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
4	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
4	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
4	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
4	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
4	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
4	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
4	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
4	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
5	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
5	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
5	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
5	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
5	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
5	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
5	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
5	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
6	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
6	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
6	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
6	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
6	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
6	DecisionTreeClassifier	accuracy	entropy	0.6194029850746269
6	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
6	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
7	DecisionTreeClassifier	accuracy	gini	0.6541353383458647

7	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
7	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
7	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
7	DecisionTreeClassifier	accuracy	gini	0.631578947368421
7	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
7	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
7	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
8	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
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8	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
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9	DecisionTreeClassifier	accuracy	gini	0.6015037593984962
9	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
9	DecisionTreeClassifier	accuracy	gini	0.5789473684210527
9	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
9	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
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9	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
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11	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
11	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
11	DecisionTreeClassifier	accuracy	gini	0.6119402985074627
11	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
11	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
11	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
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23	DecisionTreeClassifier	f1	gini	0.7428571428571429
23	DecisionTreeClassifier	f1	entropy	0.7322404371584699
23	DecisionTreeClassifier	f1	gini	0.7472527472527474
23	DecisionTreeClassifier	f1	entropy	0.7540983606557377
23	DecisionTreeClassifier	f1	gini	0.7444444444444445
23	DecisionTreeClassifier	f1	entropy	0.7078651685393259
23	DecisionTreeClassifier	f1	gini	0.7513812154696133
23	DecisionTreeClassifier	f1	entropy	0.7222222222222223
24	DecisionTreeClassifier	f1	gini	0.7182320441988951
24	DecisionTreeClassifier	f1	entropy	0.7938144329896908
24	DecisionTreeClassifier	f1	gini	0.7282608695652175
24	DecisionTreeClassifier	f1	entropy	0.7748691099476439
24	DecisionTreeClassifier	f1	gini	0.7173913043478262
24	DecisionTreeClassifier	f1	entropy	0.806282722513089
24	DecisionTreeClassifier	f1	gini	0.7282608695652175
24	DecisionTreeClassifier	f1	entropy	0.7894736842105262
25	DecisionTreeClassifier	f1	gini	0.7897435897435897

25	DecisionTreeClassifier	f1	entropy	0.79
25	DecisionTreeClassifier	f1	gini	0.7812499999999999
25	DecisionTreeClassifier	f1	entropy	0.7628865979381444
25	DecisionTreeClassifier	f1	gini	0.7748691099476439
25	DecisionTreeClassifier	f1	entropy	0.7525773195876289
25	DecisionTreeClassifier	f1	gini	0.7812499999999999
25	DecisionTreeClassifier	f1	entropy	0.7857142857142857

Table 5: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.7014925373134329
1	RandomForestClassifier	accuracy	5	0.6791044776119403
1	RandomForestClassifier	accuracy	5	0.7835820895522388
1	RandomForestClassifier	accuracy	5	0.6716417910447762
1	RandomForestClassifier	accuracy	50	0.6865671641791045
1	RandomForestClassifier	accuracy	50	0.7238805970149254
1	RandomForestClassifier	accuracy	50	0.746268656716418
1	RandomForestClassifier	accuracy	50	0.7313432835820896
2	RandomForestClassifier	accuracy	5	0.7089552238805971
2	RandomForestClassifier	accuracy	5	0.7313432835820896
2	RandomForestClassifier	accuracy	5	0.7164179104477612
2	RandomForestClassifier	accuracy	5	0.7313432835820896
2	RandomForestClassifier	accuracy	50	0.7313432835820896
2	RandomForestClassifier	accuracy	50	0.7164179104477612
2	RandomForestClassifier	accuracy	50	0.746268656716418
2	RandomForestClassifier	accuracy	50	0.746268656716418
3	RandomForestClassifier	accuracy	5	0.706766917293233
3	RandomForestClassifier	accuracy	5	0.7142857142857143
3	RandomForestClassifier	accuracy	5	0.7368421052631579
3	RandomForestClassifier	accuracy	5	0.7218045112781954
3	RandomForestClassifier	accuracy	50	0.7293233082706767
3	RandomForestClassifier	accuracy	50	0.7669172932330827
3	RandomForestClassifier	accuracy	50	0.7819548872180451
3	RandomForestClassifier	accuracy	50	0.7744360902255639
4	RandomForestClassifier	accuracy	5	0.7368421052631579
4	RandomForestClassifier	accuracy	5	0.7368421052631579
4	RandomForestClassifier	accuracy	5	0.6842105263157895
4	RandomForestClassifier	accuracy	5	0.6842105263157895
4	RandomForestClassifier	accuracy	50	0.8045112781954887
4	RandomForestClassifier	accuracy	50	0.7443609022556391

4	RandomForestClassifier	accuracy	50	0.7744360902255639
4	RandomForestClassifier	accuracy	50	0.8045112781954887
5	RandomForestClassifier	accuracy	5	0.7218045112781954
5	RandomForestClassifier	accuracy	5	0.6240601503759399
5	RandomForestClassifier	accuracy	5	0.6992481203007519
5	RandomForestClassifier	accuracy	5	0.7142857142857143
5	RandomForestClassifier	accuracy	50	0.6917293233082706
5	RandomForestClassifier	accuracy	50	0.6917293233082706
5	RandomForestClassifier	accuracy	50	0.7293233082706767
5	RandomForestClassifier	accuracy	50	0.7218045112781954
6	RandomForestClassifier	accuracy	5	0.7388059701492538
6	RandomForestClassifier	accuracy	5	0.664179104477612
6	RandomForestClassifier	accuracy	5	0.7388059701492538
6	RandomForestClassifier	accuracy	5	0.7014925373134329
6	RandomForestClassifier	accuracy	50	0.7611940298507462
6	RandomForestClassifier	accuracy	50	0.746268656716418
6	RandomForestClassifier	accuracy	50	0.753731343283582
6	RandomForestClassifier	accuracy	50	0.746268656716418
7	RandomForestClassifier	accuracy	5	0.7014925373134329
7	RandomForestClassifier	accuracy	5	0.6940298507462687
7	RandomForestClassifier	accuracy	5	0.6492537313432836
7	RandomForestClassifier	accuracy	5	0.7089552238805971
7	RandomForestClassifier	accuracy	50	0.7761194029850746
7	RandomForestClassifier	accuracy	50	0.753731343283582
7	RandomForestClassifier	accuracy	50	0.7686567164179104
7	RandomForestClassifier	accuracy	50	0.8208955223880597
8	RandomForestClassifier	accuracy	5	0.706766917293233
8	RandomForestClassifier	accuracy	5	0.6992481203007519
8	RandomForestClassifier	accuracy	5	0.7669172932330827
8	RandomForestClassifier	accuracy	5	0.7218045112781954
8	RandomForestClassifier	accuracy	50	0.7669172932330827
8	RandomForestClassifier	accuracy	50	0.7669172932330827
8	RandomForestClassifier	accuracy	50	0.7894736842105263
8	RandomForestClassifier	accuracy	50	0.7819548872180451
9	RandomForestClassifier	accuracy	5	0.6766917293233082
9	RandomForestClassifier	accuracy	5	0.6917293233082706
9	RandomForestClassifier	accuracy	5	0.6541353383458647
9	RandomForestClassifier	accuracy	5	0.6541353383458647
9	RandomForestClassifier	accuracy	50	0.7669172932330827
9	RandomForestClassifier	accuracy	50	0.7293233082706767
9	RandomForestClassifier	accuracy	50	0.7293233082706767
9	RandomForestClassifier	accuracy	50	0.7142857142857143
10	RandomForestClassifier	accuracy	5	0.6240601503759399

10	RandomForestClassifier	accuracy	5	0.6766917293233082
10	RandomForestClassifier	accuracy	5	0.6240601503759399
10	RandomForestClassifier	accuracy	5	0.6616541353383458
10	RandomForestClassifier	accuracy	50	0.7142857142857143
10	RandomForestClassifier	accuracy	50	0.706766917293233
10	RandomForestClassifier	accuracy	50	0.7218045112781954
10	RandomForestClassifier	accuracy	50	0.7142857142857143
11	RandomForestClassifier	accuracy	5	0.753731343283582
11	RandomForestClassifier	accuracy	5	0.7089552238805971
11	RandomForestClassifier	accuracy	5	0.6791044776119403
11	RandomForestClassifier	accuracy	5	0.6492537313432836
11	RandomForestClassifier	accuracy	50	0.7238805970149254
11	RandomForestClassifier	accuracy	50	0.7089552238805971
11	RandomForestClassifier	accuracy	50	0.7164179104477612
11	RandomForestClassifier	accuracy	50	0.6940298507462687
12	RandomForestClassifier	accuracy	5	0.7313432835820896
12	RandomForestClassifier	accuracy	5	0.6268656716417911
12	RandomForestClassifier	accuracy	5	0.746268656716418
12	RandomForestClassifier	accuracy	5	0.7014925373134329
12	RandomForestClassifier	accuracy	50	0.7388059701492538
12	RandomForestClassifier	accuracy	50	0.7611940298507462
12	RandomForestClassifier	accuracy	50	0.7835820895522388
12	RandomForestClassifier	accuracy	50	0.753731343283582
13	RandomForestClassifier	accuracy	5	0.6917293233082706
13	RandomForestClassifier	accuracy	5	0.6691729323308271
13	RandomForestClassifier	accuracy	5	0.6992481203007519
13	RandomForestClassifier	accuracy	5	0.6616541353383458
13	RandomForestClassifier	accuracy	50	0.7443609022556391
13	RandomForestClassifier	accuracy	50	0.7142857142857143
13	RandomForestClassifier	accuracy	50	0.7142857142857143
13	RandomForestClassifier	accuracy	50	0.7518796992481203
14	RandomForestClassifier	accuracy	5	0.7293233082706767
14	RandomForestClassifier	accuracy	5	0.6616541353383458
14	RandomForestClassifier	accuracy	5	0.6691729323308271
14	RandomForestClassifier	accuracy	5	0.706766917293233
14	RandomForestClassifier	accuracy	50	0.7593984962406015
14	RandomForestClassifier	accuracy	50	0.7593984962406015
14	RandomForestClassifier	accuracy	50	0.7518796992481203
14	RandomForestClassifier	accuracy	50	0.7744360902255639
15	RandomForestClassifier	accuracy	5	0.6766917293233082
15	RandomForestClassifier	accuracy	5	0.7293233082706767
15	RandomForestClassifier	accuracy	5	0.6691729323308271
15	RandomForestClassifier	accuracy	5	0.7368421052631579

15	RandomForestClassifier	accuracy	50	0.7593984962406015
15	RandomForestClassifier	accuracy	50	0.7443609022556391
15	RandomForestClassifier	accuracy	50	0.7368421052631579
15	RandomForestClassifier	accuracy	50	0.7593984962406015
16	RandomForestClassifier	accuracy	5	0.6865671641791045
16	RandomForestClassifier	accuracy	5	0.6791044776119403
16	RandomForestClassifier	accuracy	5	0.7164179104477612
16	RandomForestClassifier	accuracy	5	0.664179104477612
16	RandomForestClassifier	accuracy	50	0.7014925373134329
16	RandomForestClassifier	accuracy	50	0.7313432835820896
16	RandomForestClassifier	accuracy	50	0.6940298507462687
16	RandomForestClassifier	accuracy	50	0.6940298507462687
17	RandomForestClassifier	accuracy	5	0.7835820895522388
17	RandomForestClassifier	accuracy	5	0.7238805970149254
17	RandomForestClassifier	accuracy	5	0.7089552238805971
17	RandomForestClassifier	accuracy	5	0.753731343283582
17	RandomForestClassifier	accuracy	50	0.8059701492537313
17	RandomForestClassifier	accuracy	50	0.8059701492537313
17	RandomForestClassifier	accuracy	50	0.7835820895522388
17	RandomForestClassifier	accuracy	50	0.7985074626865671
18	RandomForestClassifier	accuracy	5	0.6165413533834586
18	RandomForestClassifier	accuracy	5	0.7218045112781954
18	RandomForestClassifier	accuracy	5	0.6766917293233082
18	RandomForestClassifier	accuracy	5	0.6691729323308271
18	RandomForestClassifier	accuracy	50	0.7443609022556391
18	RandomForestClassifier	accuracy	50	0.7518796992481203
18	RandomForestClassifier	accuracy	50	0.7142857142857143
18	RandomForestClassifier	accuracy	50	0.7293233082706767
19	RandomForestClassifier	accuracy	5	0.7368421052631579
19	RandomForestClassifier	accuracy	5	0.7518796992481203
19	RandomForestClassifier	accuracy	5	0.7518796992481203
19	RandomForestClassifier	accuracy	5	0.7744360902255639
19	RandomForestClassifier	accuracy	50	0.7593984962406015
19	RandomForestClassifier	accuracy	50	0.7669172932330827
19	RandomForestClassifier	accuracy	50	0.7894736842105263
19	RandomForestClassifier	accuracy	50	0.7744360902255639
20	RandomForestClassifier	accuracy	5	0.6917293233082706
20	RandomForestClassifier	accuracy	5	0.6842105263157895
20	RandomForestClassifier	accuracy	5	0.6541353383458647
20	RandomForestClassifier	accuracy	5	0.6691729323308271
20	RandomForestClassifier	accuracy	50	0.6466165413533834
20	RandomForestClassifier	accuracy	50	0.6842105263157895
20	RandomForestClassifier	accuracy	50	0.706766917293233

20	RandomForestClassifier	accuracy	50	0.7218045112781954
21	RandomForestClassifier	accuracy	5	0.7164179104477612
21	RandomForestClassifier	accuracy	5	0.6940298507462687
21	RandomForestClassifier	accuracy	5	0.6343283582089553
21	RandomForestClassifier	accuracy	5	0.664179104477612
21	RandomForestClassifier	accuracy	50	0.753731343283582
21	RandomForestClassifier	accuracy	50	0.746268656716418
21	RandomForestClassifier	accuracy	50	0.7164179104477612
21	RandomForestClassifier	accuracy	50	0.7313432835820896
22	RandomForestClassifier	accuracy	5	0.6492537313432836
22	RandomForestClassifier	accuracy	5	0.7238805970149254
22	RandomForestClassifier	accuracy	5	0.6940298507462687
22	RandomForestClassifier	accuracy	5	0.6791044776119403
22	RandomForestClassifier	accuracy	50	0.7238805970149254
22	RandomForestClassifier	accuracy	50	0.7686567164179104
22	RandomForestClassifier	accuracy	50	0.753731343283582
22	RandomForestClassifier	accuracy	50	0.7164179104477612
23	RandomForestClassifier	accuracy	5	0.6917293233082706
23	RandomForestClassifier	accuracy	5	0.706766917293233
23	RandomForestClassifier	accuracy	5	0.7293233082706767
23	RandomForestClassifier	accuracy	5	0.7368421052631579
23	RandomForestClassifier	accuracy	50	0.7293233082706767
23	RandomForestClassifier	accuracy	50	0.7368421052631579
23	RandomForestClassifier	accuracy	50	0.7593984962406015
23	RandomForestClassifier	accuracy	50	0.7443609022556391
24	RandomForestClassifier	accuracy	5	0.6842105263157895
24	RandomForestClassifier	accuracy	5	0.7142857142857143
24	RandomForestClassifier	accuracy	5	0.6466165413533834
24	RandomForestClassifier	accuracy	5	0.7443609022556391
24	RandomForestClassifier	accuracy	50	0.7669172932330827
24	RandomForestClassifier	accuracy	50	0.7669172932330827
24	RandomForestClassifier	accuracy	50	0.7819548872180451
24	RandomForestClassifier	accuracy	50	0.8045112781954887
25	RandomForestClassifier	accuracy	5	0.7293233082706767
25	RandomForestClassifier	accuracy	5	0.7142857142857143
25	RandomForestClassifier	accuracy	5	0.7518796992481203
25	RandomForestClassifier	accuracy	5	0.7518796992481203
25	RandomForestClassifier	accuracy	50	0.7593984962406015
25	RandomForestClassifier	accuracy	50	0.7443609022556391
25	RandomForestClassifier	accuracy	50	0.7593984962406015
25	RandomForestClassifier	accuracy	50	0.706766917293233
1	RandomForestClassifier	f1	5	0.8113207547169811
1	RandomForestClassifier	f1	5	0.788177339901478

1	RandomForestClassifier	f1	5	0.861244019138756
1	RandomForestClassifier	f1	5	0.7777777777777779
1	RandomForestClassifier	f1	50	0.7980769230769231
1	RandomForestClassifier	f1	50	0.8195121951219513
1	RandomForestClassifier	f1	50	0.8349514563106796
1	RandomForestClassifier	f1	50	0.8269230769230769
2	RandomForestClassifier	f1	5	0.8020304568527918
2	RandomForestClassifier	f1	5	0.8217821782178217
2	RandomForestClassifier	f1	5	0.806122448979592
2	RandomForestClassifier	f1	5	0.8217821782178217
2	RandomForestClassifier	f1	50	0.8269230769230769
2	RandomForestClassifier	f1	50	0.8118811881188118
2	RandomForestClassifier	f1	50	0.8316831683168316
2	RandomForestClassifier	f1	50	0.8349514563106796
3	RandomForestClassifier	f1	5	0.8040201005025127
3	RandomForestClassifier	f1	5	0.8020833333333334
3	RandomForestClassifier	f1	5	0.8223350253807107
3	RandomForestClassifier	f1	5	0.8082901554404146
3	RandomForestClassifier	f1	50	0.8252427184466019
3	RandomForestClassifier	f1	50	0.8472906403940887
3	RandomForestClassifier	f1	50	0.852791878172589
3	RandomForestClassifier	f1	50	0.8529411764705881
4	RandomForestClassifier	f1	5	0.8223350253807107
4	RandomForestClassifier	f1	5	0.8128342245989305
4	RandomForestClassifier	f1	5	0.7835051546391754
4	RandomForestClassifier	f1	5	0.7835051546391754
4	RandomForestClassifier	f1	50	0.8699999999999999
4	RandomForestClassifier	f1	50	0.8333333333333334
4	RandomForestClassifier	f1	50	0.8421052631578948
4	RandomForestClassifier	f1	50	0.8673469387755103
5	RandomForestClassifier	f1	5	0.8195121951219512
5	RandomForestClassifier	f1	5	0.7311827956989246
5	RandomForestClassifier	f1	5	0.7916666666666666
5	RandomForestClassifier	f1	5	0.8080808080808081
5	RandomForestClassifier	f1	50	0.7918781725888324
5	RandomForestClassifier	f1	50	0.7960199004975125
5	RandomForestClassifier	f1	50	0.823529411764706
5	RandomForestClassifier	f1	50	0.8177339901477831
6	RandomForestClassifier	f1	5	0.8108108108108109
6	RandomForestClassifier	f1	5	0.7692307692307692
6	RandomForestClassifier	f1	5	0.8205128205128204
6	RandomForestClassifier	f1	5	0.7916666666666665
6	RandomForestClassifier	f1	50	0.8415841584158417

6	RandomForestClassifier	f1	50	0.8316831683168316
6	RandomForestClassifier	f1	50	0.8374384236453202
6	RandomForestClassifier	f1	50	0.8300000000000001
7	RandomForestClassifier	f1	5	0.7802197802197802
7	RandomForestClassifier	f1	5	0.7875647668393781
7	RandomForestClassifier	f1	5	0.7513227513227513
7	RandomForestClassifier	f1	5	0.7999999999999999
7	RandomForestClassifier	f1	50	0.8529411764705882
7	RandomForestClassifier	f1	50	0.8405797101449276
7	RandomForestClassifier	f1	50	0.8530805687203793
7	RandomForestClassifier	f1	50	0.8811881188118812
8	RandomForestClassifier	f1	5	0.7979274611398963
8	RandomForestClassifier	f1	5	0.7999999999999999
8	RandomForestClassifier	f1	5	0.8393782383419689
8	RandomForestClassifier	f1	5	0.8195121951219512
8	RandomForestClassifier	f1	50	0.8472906403940887
8	RandomForestClassifier	f1	50	0.8516746411483255
8	RandomForestClassifier	f1	50	0.8653846153846155
8	RandomForestClassifier	f1	50	0.8571428571428572
9	RandomForestClassifier	f1	5	0.7748691099476439
9	RandomForestClassifier	f1	5	0.7853403141361257
9	RandomForestClassifier	f1	5	0.7653061224489796
9	RandomForestClassifier	f1	5	0.7604166666666667
9	RandomForestClassifier	f1	50	0.8457711442786069
9	RandomForestClassifier	f1	50	0.823529411764706
9	RandomForestClassifier	f1	50	0.8181818181818182
9	RandomForestClassifier	f1	50	0.8041237113402062
10	RandomForestClassifier	f1	5	0.7448979591836735
10	RandomForestClassifier	f1	5	0.7881773399014779
10	RandomForestClassifier	f1	5	0.7549019607843137
10	RandomForestClassifier	f1	5	0.7783251231527094
10	RandomForestClassifier	f1	50	0.819047619047619
10	RandomForestClassifier	f1	50	0.8133971291866028
10	RandomForestClassifier	f1	50	0.8246445497630333
10	RandomForestClassifier	f1	50	0.820754716981132
11	RandomForestClassifier	f1	5	0.8405797101449276
11	RandomForestClassifier	f1	5	0.7999999999999999
11	RandomForestClassifier	f1	5	0.7860696517412935
11	RandomForestClassifier	f1	5	0.7589743589743589
11	RandomForestClassifier	f1	50	0.8195121951219513
11	RandomForestClassifier	f1	50	0.8078817733990149
11	RandomForestClassifier	f1	50	0.8155339805825244
11	RandomForestClassifier	f1	50	0.7980295566502462

12	RandomForestClassifier	f1	5	0.8144329896907218
12	RandomForestClassifier	f1	5	0.7368421052631579
12	RandomForestClassifier	f1	5	0.8282828282828283
12	RandomForestClassifier	f1	5	0.8058252427184466
12	RandomForestClassifier	f1	50	0.8275862068965517
12	RandomForestClassifier	f1	50	0.8431372549019609
12	RandomForestClassifier	f1	50	0.8571428571428571
12	RandomForestClassifier	f1	50	0.8374384236453202
13	RandomForestClassifier	f1	5	0.7853403141361257
13	RandomForestClassifier	f1	5	0.768421052631579
13	RandomForestClassifier	f1	5	0.7916666666666666
13	RandomForestClassifier	f1	5	0.7593582887700534
13	RandomForestClassifier	f1	50	0.8316831683168318
13	RandomForestClassifier	f1	50	0.8118811881188119
13	RandomForestClassifier	f1	50	0.8080808080808081
13	RandomForestClassifier	f1	50	0.835820895522388
14	RandomForestClassifier	f1	5	0.8085106382978724
14	RandomForestClassifier	f1	5	0.7643979057591623
14	RandomForestClassifier	f1	5	0.7843137254901962
14	RandomForestClassifier	f1	5	0.7979274611398963
14	RandomForestClassifier	f1	50	0.8431372549019608
14	RandomForestClassifier	f1	50	0.8431372549019608
14	RandomForestClassifier	f1	50	0.8405797101449276
14	RandomForestClassifier	f1	50	0.854368932038835
15	RandomForestClassifier	f1	5	0.7839195979899497
15	RandomForestClassifier	f1	5	0.8181818181818182
15	RandomForestClassifier	f1	5	0.7821782178217822
15	RandomForestClassifier	f1	5	0.8258706467661692
15	RandomForestClassifier	f1	50	0.8431372549019608
15	RandomForestClassifier	f1	50	0.8349514563106796
15	RandomForestClassifier	f1	50	0.8275862068965516
15	RandomForestClassifier	f1	50	0.8431372549019608
16	RandomForestClassifier	f1	5	0.79
16	RandomForestClassifier	f1	5	0.774869109947644
16	RandomForestClassifier	f1	5	0.806122448979592
16	RandomForestClassifier	f1	5	0.7783251231527094
16	RandomForestClassifier	f1	50	0.8
16	RandomForestClassifier	f1	50	0.8181818181818181
16	RandomForestClassifier	f1	50	0.7918781725888325
16	RandomForestClassifier	f1	50	0.7918781725888325
17	RandomForestClassifier	f1	5	0.852791878172589
17	RandomForestClassifier	f1	5	0.8159203980099503
17	RandomForestClassifier	f1	5	0.8115942028985508

17	RandomForestClassifier	f1	5	0.8358208955223881
17	RandomForestClassifier	f1	50	0.875
17	RandomForestClassifier	f1	50	0.875
17	RandomForestClassifier	f1	50	0.8625592417061613
17	RandomForestClassifier	f1	50	0.8695652173913044
18	RandomForestClassifier	f1	5	0.7384615384615385
18	RandomForestClassifier	f1	5	0.8102564102564103
18	RandomForestClassifier	f1	5	0.77720207253886
18	RandomForestClassifier	f1	5	0.7777777777777777
18	RandomForestClassifier	f1	50	0.8396226415094339
18	RandomForestClassifier	f1	50	0.8421052631578947
18	RandomForestClassifier	f1	50	0.8155339805825244
18	RandomForestClassifier	f1	50	0.8252427184466019
19	RandomForestClassifier	f1	5	0.8167539267015708
19	RandomForestClassifier	f1	5	0.83248730964467
19	RandomForestClassifier	f1	5	0.8290155440414508
19	RandomForestClassifier	f1	5	0.8484848484848486
19	RandomForestClassifier	f1	50	0.8431372549019608
19	RandomForestClassifier	f1	50	0.848780487804878
19	RandomForestClassifier	f1	50	0.86
19	RandomForestClassifier	f1	50	0.8514851485148515
20	RandomForestClassifier	f1	5	0.7939698492462313
20	RandomForestClassifier	f1	5	0.776595744680851
20	RandomForestClassifier	f1	5	0.7526881720430108
20	RandomForestClassifier	f1	5	0.7708333333333333
20	RandomForestClassifier	f1	50	0.7614213197969544
20	RandomForestClassifier	f1	50	0.79
20	RandomForestClassifier	f1	50	0.7999999999999999
20	RandomForestClassifier	f1	50	0.8121827411167513
21	RandomForestClassifier	f1	5	0.8099999999999999
21	RandomForestClassifier	f1	5	0.7853403141361256
21	RandomForestClassifier	f1	5	0.743455497382199
21	RandomForestClassifier	f1	5	0.7643979057591621
21	RandomForestClassifier	f1	50	0.8374384236453202
21	RandomForestClassifier	f1	50	0.8316831683168316
21	RandomForestClassifier	f1	50	0.806122448979592
21	RandomForestClassifier	f1	50	0.8181818181818181
22	RandomForestClassifier	f1	5	0.7614213197969544
22	RandomForestClassifier	f1	5	0.8195121951219513
22	RandomForestClassifier	f1	5	0.7980295566502462
22	RandomForestClassifier	f1	5	0.774869109947644
22	RandomForestClassifier	f1	50	0.8246445497630333
22	RandomForestClassifier	f1	50	0.8516746411483255

22	RandomForestClassifier	f1	50	0.8405797101449276
22	RandomForestClassifier	f1	50	0.8207547169811321
23	RandomForestClassifier	f1	5	0.7853403141361257
23	RandomForestClassifier	f1	5	0.7958115183246073
23	RandomForestClassifier	f1	5	0.8144329896907216
23	RandomForestClassifier	f1	5	0.8186528497409327
23	RandomForestClassifier	f1	50	0.8163265306122449
23	RandomForestClassifier	f1	50	0.8223350253807107
23	RandomForestClassifier	f1	50	0.8350515463917527
23	RandomForestClassifier	f1	50	0.8247422680412373
24	RandomForestClassifier	f1	5	0.7857142857142857
24	RandomForestClassifier	f1	5	0.8061224489795918
24	RandomForestClassifier	f1	5	0.758974358974359
24	RandomForestClassifier	f1	5	0.826530612244898
24	RandomForestClassifier	f1	50	0.8457711442786069
24	RandomForestClassifier	f1	50	0.841025641025641
24	RandomForestClassifier	f1	50	0.8542713567839196
24	RandomForestClassifier	f1	50	0.8686868686868686
25	RandomForestClassifier	f1	5	0.8181818181818182
25	RandomForestClassifier	f1	5	0.8155339805825244
25	RandomForestClassifier	f1	5	0.8405797101449276
25	RandomForestClassifier	f1	5	0.8341708542713568
25	RandomForestClassifier	f1	50	0.8490566037735848
25	RandomForestClassifier	f1	50	0.838095238095238
25	RandomForestClassifier	f1	50	0.8490566037735848
25	RandomForestClassifier	f1	50	0.8169014084507041

Table 6: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.746268656716418
1	SVC	accuracy	linear	0.746268656716418
1	SVC	accuracy	rbf	0.7238805970149254
1	SVC	accuracy	rbf	0.7238805970149254
1	SVC	accuracy	linear	0.746268656716418
1	SVC	accuracy	linear	0.746268656716418
1	SVC	accuracy	rbf	0.7238805970149254
1	SVC	accuracy	rbf	0.7238805970149254
2	SVC	accuracy	linear	0.7313432835820896
2	SVC	accuracy	linear	0.7313432835820896
2	SVC	accuracy	rbf	0.746268656716418

2	SVC	accuracy	rbf	0.746268656716418
2	SVC	accuracy	linear	0.7313432835820896
2	SVC	accuracy	linear	0.7313432835820896
2	SVC	accuracy	rbf	0.746268656716418
2	SVC	accuracy	rbf	0.746268656716418
3	SVC	accuracy	linear	0.7819548872180451
3	SVC	accuracy	linear	0.7819548872180451
3	SVC	accuracy	rbf	0.7669172932330827
3	SVC	accuracy	rbf	0.7669172932330827
3	SVC	accuracy	linear	0.7819548872180451
3	SVC	accuracy	linear	0.7819548872180451
3	SVC	accuracy	rbf	0.7669172932330827
3	SVC	accuracy	rbf	0.7669172932330827
4	SVC	accuracy	linear	0.7744360902255639
4	SVC	accuracy	linear	0.7744360902255639
4	SVC	accuracy	rbf	0.7669172932330827
4	SVC	accuracy	rbf	0.7669172932330827
4	SVC	accuracy	linear	0.7744360902255639
4	SVC	accuracy	linear	0.7744360902255639
4	SVC	accuracy	rbf	0.7669172932330827
4	SVC	accuracy	rbf	0.7669172932330827
5	SVC	accuracy	linear	0.7443609022556391
5	SVC	accuracy	linear	0.7443609022556391
5	SVC	accuracy	rbf	0.7443609022556391
5	SVC	accuracy	rbf	0.7443609022556391
5	SVC	accuracy	linear	0.7443609022556391
5	SVC	accuracy	linear	0.7443609022556391
5	SVC	accuracy	rbf	0.7443609022556391
5	SVC	accuracy	rbf	0.7443609022556391
6	SVC	accuracy	linear	0.6865671641791045
6	SVC	accuracy	linear	0.6865671641791045
6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	linear	0.6865671641791045
6	SVC	accuracy	linear	0.6865671641791045
6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	rbf	0.7611940298507462
7	SVC	accuracy	linear	0.746268656716418
7	SVC	accuracy	linear	0.746268656716418
7	SVC	accuracy	rbf	0.746268656716418
7	SVC	accuracy	rbf	0.746268656716418
7	SVC	accuracy	linear	0.746268656716418
7	SVC	accuracy	linear	0.746268656716418

7	SVC	accuracy	rbf	0.746268656716418
7	SVC	accuracy	rbf	0.746268656716418
8	SVC	accuracy	linear	0.849624060150376
8	SVC	accuracy	linear	0.849624060150376
8	SVC	accuracy	rbf	0.7744360902255639
8	SVC	accuracy	rbf	0.7744360902255639
8	SVC	accuracy	linear	0.849624060150376
8	SVC	accuracy	linear	0.849624060150376
8	SVC	accuracy	rbf	0.7744360902255639
8	SVC	accuracy	rbf	0.7744360902255639
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	rbf	0.7744360902255639
9	SVC	accuracy	rbf	0.7744360902255639
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	rbf	0.7744360902255639
9	SVC	accuracy	rbf	0.7744360902255639
10	SVC	accuracy	linear	0.6917293233082706
10	SVC	accuracy	linear	0.6917293233082706
10	SVC	accuracy	rbf	0.706766917293233
10	SVC	accuracy	rbf	0.706766917293233
10	SVC	accuracy	linear	0.6917293233082706
10	SVC	accuracy	linear	0.6917293233082706
10	SVC	accuracy	rbf	0.706766917293233
10	SVC	accuracy	rbf	0.706766917293233
11	SVC	accuracy	linear	0.7388059701492538
11	SVC	accuracy	linear	0.7388059701492538
11	SVC	accuracy	rbf	0.7388059701492538
11	SVC	accuracy	rbf	0.7388059701492538
11	SVC	accuracy	linear	0.7388059701492538
11	SVC	accuracy	linear	0.7388059701492538
11	SVC	accuracy	rbf	0.7388059701492538
11	SVC	accuracy	rbf	0.7388059701492538
12	SVC	accuracy	linear	0.7835820895522388
12	SVC	accuracy	linear	0.7835820895522388
12	SVC	accuracy	rbf	0.7388059701492538
12	SVC	accuracy	rbf	0.7388059701492538
12	SVC	accuracy	linear	0.7835820895522388
12	SVC	accuracy	linear	0.7835820895522388
12	SVC	accuracy	rbf	0.7388059701492538
12	SVC	accuracy	rbf	0.7388059701492538
13	SVC	accuracy	linear	0.7218045112781954

13	SVC	accuracy	linear	0.7218045112781954
13	SVC	accuracy	rbf	0.7593984962406015
13	SVC	accuracy	rbf	0.7593984962406015
13	SVC	accuracy	linear	0.7218045112781954
13	SVC	accuracy	linear	0.7218045112781954
13	SVC	accuracy	rbf	0.7593984962406015
13	SVC	accuracy	rbf	0.7593984962406015
14	SVC	accuracy	linear	0.7142857142857143
14	SVC	accuracy	linear	0.7142857142857143
14	SVC	accuracy	rbf	0.7368421052631579
14	SVC	accuracy	rbf	0.7368421052631579
14	SVC	accuracy	linear	0.7142857142857143
14	SVC	accuracy	linear	0.7142857142857143
14	SVC	accuracy	rbf	0.7368421052631579
14	SVC	accuracy	rbf	0.7368421052631579
15	SVC	accuracy	linear	0.7669172932330827
15	SVC	accuracy	linear	0.7669172932330827
15	SVC	accuracy	rbf	0.7293233082706767
15	SVC	accuracy	rbf	0.7293233082706767
15	SVC	accuracy	linear	0.7669172932330827
15	SVC	accuracy	linear	0.7669172932330827
15	SVC	accuracy	rbf	0.7293233082706767
15	SVC	accuracy	rbf	0.7293233082706767
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	rbf	0.7611940298507462
16	SVC	accuracy	rbf	0.7611940298507462
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	rbf	0.7611940298507462
16	SVC	accuracy	rbf	0.7611940298507462
17	SVC	accuracy	linear	0.8134328358208955
17	SVC	accuracy	linear	0.8134328358208955
17	SVC	accuracy	rbf	0.7910447761194029
17	SVC	accuracy	rbf	0.7910447761194029
17	SVC	accuracy	linear	0.8134328358208955
17	SVC	accuracy	linear	0.8134328358208955
17	SVC	accuracy	rbf	0.7910447761194029
17	SVC	accuracy	rbf	0.7910447761194029
18	SVC	accuracy	linear	0.706766917293233
18	SVC	accuracy	linear	0.706766917293233
18	SVC	accuracy	rbf	0.7368421052631579
18	SVC	accuracy	rbf	0.7368421052631579

18	SVC	accuracy	linear	0.706766917293233
18	SVC	accuracy	linear	0.706766917293233
18	SVC	accuracy	rbf	0.7368421052631579
18	SVC	accuracy	rbf	0.7368421052631579
19	SVC	accuracy	linear	0.7593984962406015
19	SVC	accuracy	linear	0.7593984962406015
19	SVC	accuracy	rbf	0.7744360902255639
19	SVC	accuracy	rbf	0.7744360902255639
19	SVC	accuracy	linear	0.7593984962406015
19	SVC	accuracy	linear	0.7593984962406015
19	SVC	accuracy	rbf	0.7744360902255639
19	SVC	accuracy	rbf	0.7744360902255639
20	SVC	accuracy	linear	0.6766917293233082
20	SVC	accuracy	linear	0.6766917293233082
20	SVC	accuracy	rbf	0.6842105263157895
20	SVC	accuracy	rbf	0.6842105263157895
20	SVC	accuracy	linear	0.6766917293233082
20	SVC	accuracy	linear	0.6766917293233082
20	SVC	accuracy	rbf	0.6842105263157895
20	SVC	accuracy	rbf	0.6842105263157895
21	SVC	accuracy	linear	0.6865671641791045
21	SVC	accuracy	linear	0.6865671641791045
21	SVC	accuracy	rbf	0.7089552238805971
21	SVC	accuracy	rbf	0.7089552238805971
21	SVC	accuracy	linear	0.6865671641791045
21	SVC	accuracy	linear	0.6865671641791045
21	SVC	accuracy	rbf	0.7089552238805971
21	SVC	accuracy	rbf	0.7089552238805971
22	SVC	accuracy	linear	0.7089552238805971
22	SVC	accuracy	linear	0.7089552238805971
22	SVC	accuracy	rbf	0.7388059701492538
22	SVC	accuracy	rbf	0.7388059701492538
22	SVC	accuracy	linear	0.7089552238805971
22	SVC	accuracy	linear	0.7089552238805971
22	SVC	accuracy	rbf	0.7388059701492538
22	SVC	accuracy	rbf	0.7388059701492538
23	SVC	accuracy	linear	0.8120300751879699
23	SVC	accuracy	linear	0.8120300751879699
23	SVC	accuracy	rbf	0.7894736842105263
23	SVC	accuracy	rbf	0.7894736842105263
23	SVC	accuracy	linear	0.8120300751879699
23	SVC	accuracy	linear	0.8120300751879699
23	SVC	accuracy	rbf	0.7894736842105263

23	SVC	accuracy	rbf	0.7894736842105263
24	SVC	accuracy	linear	0.7819548872180451
24	SVC	accuracy	linear	0.7819548872180451
24	SVC	accuracy	rbf	0.7744360902255639
24	SVC	accuracy	rbf	0.7744360902255639
24	SVC	accuracy	linear	0.7819548872180451
24	SVC	accuracy	linear	0.7819548872180451
24	SVC	accuracy	rbf	0.7744360902255639
24	SVC	accuracy	rbf	0.7744360902255639
25	SVC	accuracy	linear	0.7969924812030075
25	SVC	accuracy	linear	0.7969924812030075
25	SVC	accuracy	rbf	0.7368421052631579
25	SVC	accuracy	rbf	0.7368421052631579
25	SVC	accuracy	linear	0.7969924812030075
25	SVC	accuracy	linear	0.7969924812030075
25	SVC	accuracy	rbf	0.7368421052631579
25	SVC	accuracy	rbf	0.7368421052631579
1	SVC	f1	linear	0.8300000000000001
1	SVC	f1	linear	0.8300000000000001
1	SVC	f1	rbf	0.8195121951219513
1	SVC	f1	rbf	0.8195121951219513
1	SVC	f1	linear	0.8300000000000001
1	SVC	f1	linear	0.8300000000000001
1	SVC	f1	rbf	0.8195121951219513
1	SVC	f1	rbf	0.8195121951219513
2	SVC	f1	linear	0.8163265306122448
2	SVC	f1	linear	0.8163265306122448
2	SVC	f1	rbf	0.8380952380952381
2	SVC	f1	rbf	0.8380952380952381
2	SVC	f1	linear	0.8163265306122448
2	SVC	f1	linear	0.8163265306122448
2	SVC	f1	rbf	0.8380952380952381
2	SVC	f1	rbf	0.8380952380952381
3	SVC	f1	linear	0.8449197860962566
3	SVC	f1	linear	0.8449197860962566
3	SVC	f1	rbf	0.8516746411483255
3	SVC	f1	rbf	0.8516746411483255
3	SVC	f1	linear	0.8449197860962566
3	SVC	f1	linear	0.8449197860962566
3	SVC	f1	rbf	0.8516746411483255
3	SVC	f1	rbf	0.8516746411483255
4	SVC	f1	linear	0.8369565217391305
4	SVC	f1	linear	0.8369565217391305

4	SVC	f1	rbf	0.8442211055276382
4	SVC	f1	rbf	0.8442211055276382
4	SVC	f1	linear	0.8369565217391305
4	SVC	f1	linear	0.8369565217391305
4	SVC	f1	rbf	0.8442211055276382
4	SVC	f1	rbf	0.8442211055276382
5	SVC	f1	linear	0.8210526315789475
5	SVC	f1	linear	0.8210526315789475
5	SVC	f1	rbf	0.83
5	SVC	f1	rbf	0.83
5	SVC	f1	linear	0.8210526315789475
5	SVC	f1	linear	0.8210526315789475
5	SVC	f1	rbf	0.83
5	SVC	f1	rbf	0.83
6	SVC	f1	linear	0.7812500000000001
6	SVC	f1	linear	0.7812500000000001
6	SVC	f1	rbf	0.8431372549019609
6	SVC	f1	rbf	0.8431372549019609
6	SVC	f1	linear	0.7812500000000001
6	SVC	f1	linear	0.7812500000000001
6	SVC	f1	rbf	0.8431372549019609
6	SVC	f1	rbf	0.8431372549019609
7	SVC	f1	linear	0.8282828282828283
7	SVC	f1	linear	0.8282828282828283
7	SVC	f1	rbf	0.8365384615384615
7	SVC	f1	rbf	0.8365384615384615
7	SVC	f1	linear	0.8282828282828283
7	SVC	f1	linear	0.8282828282828283
7	SVC	f1	rbf	0.8365384615384615
7	SVC	f1	rbf	0.8365384615384615
8	SVC	f1	linear	0.8969072164948454
8	SVC	f1	linear	0.8969072164948454
8	SVC	f1	rbf	0.8571428571428572
8	SVC	f1	rbf	0.8571428571428572
8	SVC	f1	linear	0.8969072164948454
8	SVC	f1	linear	0.8969072164948454
8	SVC	f1	rbf	0.8571428571428572
8	SVC	f1	rbf	0.8571428571428572
9	SVC	f1	linear	0.8128342245989305
9	SVC	f1	linear	0.8128342245989305
9	SVC	f1	rbf	0.8500000000000001
9	SVC	f1	rbf	0.8500000000000001
9	SVC	f1	linear	0.8128342245989305

9	SVC	f1	linear	0.8128342245989305
9	SVC	f1	rbf	0.8500000000000001
9	SVC	f1	rbf	0.8500000000000001
10	SVC	f1	linear	0.7875647668393783
10	SVC	f1	linear	0.7875647668393783
10	SVC	f1	rbf	0.8115942028985507
10	SVC	f1	rbf	0.8115942028985507
10	SVC	f1	linear	0.7875647668393783
10	SVC	f1	linear	0.7875647668393783
10	SVC	f1	rbf	0.8115942028985507
10	SVC	f1	rbf	0.8115942028985507
11	SVC	f1	linear	0.8205128205128204
11	SVC	f1	linear	0.8205128205128204
11	SVC	f1	rbf	0.8292682926829268
11	SVC	f1	rbf	0.8292682926829268
11	SVC	f1	linear	0.8205128205128204
11	SVC	f1	linear	0.8205128205128204
11	SVC	f1	rbf	0.8292682926829268
11	SVC	f1	rbf	0.8292682926829268
12	SVC	f1	linear	0.8497409326424871
12	SVC	f1	linear	0.8497409326424871
12	SVC	f1	rbf	0.8292682926829268
12	SVC	f1	rbf	0.8292682926829268
12	SVC	f1	linear	0.8497409326424871
12	SVC	f1	linear	0.8497409326424871
12	SVC	f1	rbf	0.8292682926829268
12	SVC	f1	rbf	0.8292682926829268
13	SVC	f1	linear	0.8042328042328043
13	SVC	f1	linear	0.8042328042328043
13	SVC	f1	rbf	0.8446601941747574
13	SVC	f1	rbf	0.8446601941747574
13	SVC	f1	linear	0.8042328042328043
13	SVC	f1	linear	0.8042328042328043
13	SVC	f1	rbf	0.8446601941747574
13	SVC	f1	rbf	0.8446601941747574
14	SVC	f1	linear	0.8041237113402062
14	SVC	f1	linear	0.8041237113402062
14	SVC	f1	rbf	0.8292682926829268
14	SVC	f1	rbf	0.8292682926829268
14	SVC	f1	linear	0.8041237113402062
14	SVC	f1	linear	0.8041237113402062
14	SVC	f1	rbf	0.8292682926829268
14	SVC	f1	rbf	0.8292682926829268

15	SVC	f1	linear	0.8426395939086294
15	SVC	f1	linear	0.8426395939086294
15	SVC	f1	rbf	0.826923076923077
15	SVC	f1	rbf	0.826923076923077
15	SVC	f1	linear	0.8426395939086294
15	SVC	f1	linear	0.8426395939086294
15	SVC	f1	rbf	0.826923076923077
15	SVC	f1	rbf	0.826923076923077
16	SVC	f1	linear	0.7849462365591399
16	SVC	f1	linear	0.7849462365591399
16	SVC	f1	rbf	0.8400000000000001
16	SVC	f1	rbf	0.8400000000000001
16	SVC	f1	linear	0.7849462365591399
16	SVC	f1	linear	0.7849462365591399
16	SVC	f1	rbf	0.8400000000000001
16	SVC	f1	rbf	0.8400000000000001
17	SVC	f1	linear	0.878048780487805
17	SVC	f1	linear	0.878048780487805
17	SVC	f1	rbf	0.869158878504673
17	SVC	f1	rbf	0.869158878504673
17	SVC	f1	linear	0.878048780487805
17	SVC	f1	linear	0.878048780487805
17	SVC	f1	rbf	0.869158878504673
17	SVC	f1	rbf	0.869158878504673
18	SVC	f1	linear	0.8059701492537312
18	SVC	f1	linear	0.8059701492537312
18	SVC	f1	rbf	0.8309178743961353
18	SVC	f1	rbf	0.8309178743961353
18	SVC	f1	linear	0.8059701492537312
18	SVC	f1	linear	0.8059701492537312
18	SVC	f1	rbf	0.8309178743961353
18	SVC	f1	rbf	0.8309178743961353
19	SVC	f1	linear	0.8333333333333333
19	SVC	f1	linear	0.8333333333333333
19	SVC	f1	rbf	0.8557692307692307
19	SVC	f1	rbf	0.8557692307692307
19	SVC	f1	linear	0.8333333333333333
19	SVC	f1	linear	0.8333333333333333
19	SVC	f1	rbf	0.8557692307692307
19	SVC	f1	rbf	0.8557692307692307
20	SVC	f1	linear	0.7748691099476439
20	SVC	f1	linear	0.7748691099476439
20	SVC	f1	rbf	0.787878787878788

20	SVC	f1	rbf	0.787878787878788
20	SVC	f1	linear	0.7748691099476439
20	SVC	f1	linear	0.7748691099476439
20	SVC	f1	rbf	0.787878787878788
20	SVC	f1	rbf	0.787878787878788
21	SVC	f1	linear	0.7835051546391754
21	SVC	f1	linear	0.7835051546391754
21	SVC	f1	rbf	0.8097560975609756
21	SVC	f1	rbf	0.8097560975609756
21	SVC	f1	linear	0.7835051546391754
21	SVC	f1	linear	0.7835051546391754
21	SVC	f1	rbf	0.8097560975609756
21	SVC	f1	rbf	0.8097560975609756
22	SVC	f1	linear	0.7979274611398963
22	SVC	f1	linear	0.7979274611398963
22	SVC	f1	rbf	0.8341232227488151
22	SVC	f1	rbf	0.8341232227488151
22	SVC	f1	linear	0.7979274611398963
22	SVC	f1	linear	0.7979274611398963
22	SVC	f1	rbf	0.8341232227488151
22	SVC	f1	rbf	0.8341232227488151
23	SVC	f1	linear	0.8603351955307263
23	SVC	f1	linear	0.8603351955307263
23	SVC	f1	rbf	0.8613861386138614
23	SVC	f1	rbf	0.8613861386138614
23	SVC	f1	linear	0.8603351955307263
23	SVC	f1	linear	0.8603351955307263
23	SVC	f1	rbf	0.8613861386138614
23	SVC	f1	rbf	0.8613861386138614
24	SVC	f1	linear	0.849740932642487
24	SVC	f1	linear	0.849740932642487
24	SVC	f1	rbf	0.8529411764705881
24	SVC	f1	rbf	0.8529411764705881
24	SVC	f1	linear	0.849740932642487
24	SVC	f1	linear	0.849740932642487
24	SVC	f1	rbf	0.8529411764705881
24	SVC	f1	rbf	0.8529411764705881
25	SVC	f1	linear	0.8643216080402009
25	SVC	f1	linear	0.8643216080402009
25	SVC	f1	rbf	0.8387096774193549
25	SVC	f1	rbf	0.8387096774193549
25	SVC	f1	linear	0.8643216080402009
25	SVC	f1	linear	0.8643216080402009

25	SVC	f1	rbf	0.8387096774193549
25	SVC	f1	rbf	0.8387096774193549

Table 7: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
1	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
1	DecisionTreeClassifier	accuracy	gini	0.7313432835820896
1	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
1	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
1	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
1	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
1	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
2	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
2	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
2	DecisionTreeClassifier	accuracy	gini	0.6119402985074627
2	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
2	DecisionTreeClassifier	accuracy	gini	0.6119402985074627
2	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
2	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
2	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
3	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
3	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
3	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
3	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
3	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
3	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
3	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
3	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
4	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
4	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
4	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
4	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
4	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
4	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
4	DecisionTreeClassifier	accuracy	gini	0.706766917293233
4	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
5	DecisionTreeClassifier	accuracy	gini	0.6015037593984962
5	DecisionTreeClassifier	accuracy	entropy	0.5864661654135338
5	DecisionTreeClassifier	accuracy	gini	0.5939849624060151

5	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
5	DecisionTreeClassifier	accuracy	gini	0.5939849624060151
5	DecisionTreeClassifier	accuracy	entropy	0.5864661654135338
5	DecisionTreeClassifier	accuracy	gini	0.5939849624060151
5	DecisionTreeClassifier	accuracy	entropy	0.5789473684210527
6	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
6	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
6	DecisionTreeClassifier	accuracy	gini	0.6044776119402985
6	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
6	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
6	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
6	DecisionTreeClassifier	accuracy	gini	0.6194029850746269
6	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
7	DecisionTreeClassifier	accuracy	gini	0.6044776119402985
7	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
7	DecisionTreeClassifier	accuracy	gini	0.6044776119402985
7	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
7	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
7	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
7	DecisionTreeClassifier	accuracy	gini	0.5970149253731343
7	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
8	DecisionTreeClassifier	accuracy	gini	0.7518796992481203
8	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
8	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
8	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
8	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
8	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
8	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
8	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
9	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
9	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
9	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
9	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
9	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
9	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
9	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
9	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
10	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
10	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
10	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
10	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
10	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
10	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647

10	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
10	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
11	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
11	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
11	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
11	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
11	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
11	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
11	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
11	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
12	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
12	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
12	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
12	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
12	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
12	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
12	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
12	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
13	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
13	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
13	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
13	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
13	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
13	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
13	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
13	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
14	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
14	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
14	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
14	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
14	DecisionTreeClassifier	accuracy	gini	0.706766917293233
14	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
14	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
14	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
15	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
15	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
15	DecisionTreeClassifier	accuracy	gini	0.706766917293233
15	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
15	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
15	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
15	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
15	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
16	DecisionTreeClassifier	accuracy	gini	0.582089552238806

16	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
16	DecisionTreeClassifier	accuracy	gini	0.5895522388059702
16	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
16	DecisionTreeClassifier	accuracy	gini	0.5970149253731343
16	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
16	DecisionTreeClassifier	accuracy	gini	0.6044776119402985
16	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
17	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
17	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
17	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
17	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
17	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
17	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
17	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
17	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
18	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
18	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
18	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
18	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
18	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
18	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
18	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
18	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
19	DecisionTreeClassifier	accuracy	gini	0.6090225563909775
19	DecisionTreeClassifier	accuracy	entropy	0.5939849624060151
19	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
19	DecisionTreeClassifier	accuracy	entropy	0.5789473684210527
19	DecisionTreeClassifier	accuracy	gini	0.6015037593984962
19	DecisionTreeClassifier	accuracy	entropy	0.5864661654135338
19	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
19	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
20	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
20	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
20	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
20	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
20	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
20	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
20	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
20	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
21	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
21	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
21	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
21	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329

21	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
21	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
21	DecisionTreeClassifier	accuracy	gini	0.6119402985074627
21	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
22	DecisionTreeClassifier	accuracy	gini	0.6119402985074627
22	DecisionTreeClassifier	accuracy	entropy	0.6194029850746269
22	DecisionTreeClassifier	accuracy	gini	0.664179104477612
22	DecisionTreeClassifier	accuracy	entropy	0.6194029850746269
22	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
22	DecisionTreeClassifier	accuracy	entropy	0.6044776119402985
22	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
22	DecisionTreeClassifier	accuracy	entropy	0.5895522388059702
23	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
23	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
23	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
23	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
23	DecisionTreeClassifier	accuracy	gini	0.5864661654135338
23	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
23	DecisionTreeClassifier	accuracy	gini	0.6090225563909775
23	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
24	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
24	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
24	DecisionTreeClassifier	accuracy	gini	0.706766917293233
24	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
24	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
24	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
24	DecisionTreeClassifier	accuracy	gini	0.706766917293233
24	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
25	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
25	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
25	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
25	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
25	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
25	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
25	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
25	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
1	DecisionTreeClassifier	f1	gini	0.7608695652173912
1	DecisionTreeClassifier	f1	entropy	0.782122905027933
1	DecisionTreeClassifier	f1	gini	0.8105263157894737
1	DecisionTreeClassifier	f1	entropy	0.7582417582417583
1	DecisionTreeClassifier	f1	gini	0.7759562841530055
1	DecisionTreeClassifier	f1	entropy	0.7528089887640449
1	DecisionTreeClassifier	f1	gini	0.7692307692307692

1	DecisionTreeClassifier	f1	entropy	0.7486033519553073
2	DecisionTreeClassifier	f1	gini	0.7395833333333335
2	DecisionTreeClassifier	f1	entropy	0.7322404371584699
2	DecisionTreeClassifier	f1	gini	0.723404255319149
2	DecisionTreeClassifier	f1	entropy	0.7472527472527473
2	DecisionTreeClassifier	f1	gini	0.7263157894736842
2	DecisionTreeClassifier	f1	entropy	0.7391304347826088
2	DecisionTreeClassifier	f1	gini	0.7553191489361702
2	DecisionTreeClassifier	f1	entropy	0.7403314917127071
3	DecisionTreeClassifier	f1	gini	0.7472527472527474
3	DecisionTreeClassifier	f1	entropy	0.7472527472527474
3	DecisionTreeClassifier	f1	gini	0.7540983606557377
3	DecisionTreeClassifier	f1	entropy	0.7734806629834253
3	DecisionTreeClassifier	f1	gini	0.7444444444444445
3	DecisionTreeClassifier	f1	entropy	0.7403314917127072
3	DecisionTreeClassifier	f1	gini	0.7608695652173912
3	DecisionTreeClassifier	f1	entropy	0.7640449438202247
4	DecisionTreeClassifier	f1	gini	0.7752808988764045
4	DecisionTreeClassifier	f1	entropy	0.8066298342541436
4	DecisionTreeClassifier	f1	gini	0.7912087912087912
4	DecisionTreeClassifier	f1	entropy	0.8044692737430169
4	DecisionTreeClassifier	f1	gini	0.7912087912087912
4	DecisionTreeClassifier	f1	entropy	0.7954545454545455
4	DecisionTreeClassifier	f1	gini	0.7796610169491526
4	DecisionTreeClassifier	f1	entropy	0.8044692737430169
5	DecisionTreeClassifier	f1	gini	0.7165775401069518
5	DecisionTreeClassifier	f1	entropy	0.6857142857142856
5	DecisionTreeClassifier	f1	gini	0.7065217391304348
5	DecisionTreeClassifier	f1	entropy	0.7431693989071038
5	DecisionTreeClassifier	f1	gini	0.7127659574468086
5	DecisionTreeClassifier	f1	entropy	0.6927374301675978
5	DecisionTreeClassifier	f1	gini	0.7096774193548389
5	DecisionTreeClassifier	f1	entropy	0.6853932584269663
6	DecisionTreeClassifier	f1	gini	0.7222222222222223
6	DecisionTreeClassifier	f1	entropy	0.7351351351351353
6	DecisionTreeClassifier	f1	gini	0.7039106145251397
6	DecisionTreeClassifier	f1	entropy	0.7759562841530055
6	DecisionTreeClassifier	f1	gini	0.75
6	DecisionTreeClassifier	f1	entropy	0.7513812154696133
6	DecisionTreeClassifier	f1	gini	0.7182320441988951
6	DecisionTreeClassifier	f1	entropy	0.75
7	DecisionTreeClassifier	f1	gini	0.7165775401069518
7	DecisionTreeClassifier	f1	entropy	0.7978723404255319

7	DecisionTreeClassifier	f1	gini	0.7039106145251397
7	DecisionTreeClassifier	f1	entropy	0.7978723404255319
7	DecisionTreeClassifier	f1	gini	0.7379679144385027
7	DecisionTreeClassifier	f1	entropy	0.8042328042328043
7	DecisionTreeClassifier	f1	gini	0.7065217391304348
7	DecisionTreeClassifier	f1	entropy	0.795698924731183
8	DecisionTreeClassifier	f1	gini	0.8253968253968254
8	DecisionTreeClassifier	f1	entropy	0.7608695652173912
8	DecisionTreeClassifier	f1	gini	0.7978723404255319
8	DecisionTreeClassifier	f1	entropy	0.7659574468085107
8	DecisionTreeClassifier	f1	gini	0.8128342245989305
8	DecisionTreeClassifier	f1	entropy	0.7608695652173912
8	DecisionTreeClassifier	f1	gini	0.8148148148148148
8	DecisionTreeClassifier	f1	entropy	0.7717391304347825
9	DecisionTreeClassifier	f1	gini	0.7542857142857143
9	DecisionTreeClassifier	f1	entropy	0.7936507936507936
9	DecisionTreeClassifier	f1	gini	0.7727272727272727
9	DecisionTreeClassifier	f1	entropy	0.8042328042328043
9	DecisionTreeClassifier	f1	gini	0.7613636363636364
9	DecisionTreeClassifier	f1	entropy	0.7894736842105262
9	DecisionTreeClassifier	f1	gini	0.7441860465116278
9	DecisionTreeClassifier	f1	entropy	0.7891891891891891
10	DecisionTreeClassifier	f1	gini	0.7403314917127072
10	DecisionTreeClassifier	f1	entropy	0.75
10	DecisionTreeClassifier	f1	gini	0.7608695652173912
10	DecisionTreeClassifier	f1	entropy	0.7322404371584699
10	DecisionTreeClassifier	f1	gini	0.7717391304347825
10	DecisionTreeClassifier	f1	entropy	0.7526881720430108
10	DecisionTreeClassifier	f1	gini	0.7391304347826086
10	DecisionTreeClassifier	f1	entropy	0.7282608695652175
11	DecisionTreeClassifier	f1	gini	0.75
11	DecisionTreeClassifier	f1	entropy	0.7608695652173912
11	DecisionTreeClassifier	f1	gini	0.7473684210526316
11	DecisionTreeClassifier	f1	entropy	0.7322404371584699
11	DecisionTreeClassifier	f1	gini	0.7578947368421053
11	DecisionTreeClassifier	f1	entropy	0.7351351351351353
11	DecisionTreeClassifier	f1	gini	0.7486631016042781
11	DecisionTreeClassifier	f1	entropy	0.7322404371584699
12	DecisionTreeClassifier	f1	gini	0.7608695652173912
12	DecisionTreeClassifier	f1	entropy	0.7783783783783782
12	DecisionTreeClassifier	f1	gini	0.7872340425531915
12	DecisionTreeClassifier	f1	entropy	0.7717391304347826
12	DecisionTreeClassifier	f1	gini	0.7807486631016043

12	DecisionTreeClassifier	f1	entropy	0.7624309392265194
12	DecisionTreeClassifier	f1	gini	0.783068783068783
12	DecisionTreeClassifier	f1	entropy	0.7403314917127071
13	DecisionTreeClassifier	f1	gini	0.7553191489361704
13	DecisionTreeClassifier	f1	entropy	0.7322404371584699
13	DecisionTreeClassifier	f1	gini	0.776595744680851
13	DecisionTreeClassifier	f1	entropy	0.7282608695652175
13	DecisionTreeClassifier	f1	gini	0.7659574468085107
13	DecisionTreeClassifier	f1	entropy	0.7222222222222223
13	DecisionTreeClassifier	f1	gini	0.7311827956989246
13	DecisionTreeClassifier	f1	entropy	0.7173913043478262
14	DecisionTreeClassifier	f1	gini	0.7608695652173912
14	DecisionTreeClassifier	f1	entropy	0.7777777777777777
14	DecisionTreeClassifier	f1	gini	0.7830687830687831
14	DecisionTreeClassifier	f1	entropy	0.8121827411167513
14	DecisionTreeClassifier	f1	gini	0.7936507936507936
14	DecisionTreeClassifier	f1	entropy	0.8102564102564103
14	DecisionTreeClassifier	f1	gini	0.7783783783783783
14	DecisionTreeClassifier	f1	entropy	0.82
15	DecisionTreeClassifier	f1	gini	0.8085106382978724
15	DecisionTreeClassifier	f1	entropy	0.7650273224043715
15	DecisionTreeClassifier	f1	gini	0.7868852459016393
15	DecisionTreeClassifier	f1	entropy	0.7650273224043715
15	DecisionTreeClassifier	f1	gini	0.7956989247311826
15	DecisionTreeClassifier	f1	entropy	0.7912087912087912
15	DecisionTreeClassifier	f1	gini	0.7709497206703911
15	DecisionTreeClassifier	f1	entropy	0.7675675675675675
16	DecisionTreeClassifier	f1	gini	0.6956521739130436
16	DecisionTreeClassifier	f1	entropy	0.745945945945946
16	DecisionTreeClassifier	f1	gini	0.7150259067357513
16	DecisionTreeClassifier	f1	entropy	0.7303370786516854
16	DecisionTreeClassifier	f1	gini	0.71875
16	DecisionTreeClassifier	f1	entropy	0.7415730337078651
16	DecisionTreeClassifier	f1	gini	0.7103825136612022
16	DecisionTreeClassifier	f1	entropy	0.7582417582417583
17	DecisionTreeClassifier	f1	gini	0.7486631016042781
17	DecisionTreeClassifier	f1	entropy	0.7897435897435897
17	DecisionTreeClassifier	f1	gini	0.7473684210526316
17	DecisionTreeClassifier	f1	entropy	0.7938144329896908
17	DecisionTreeClassifier	f1	gini	0.7539267015706806
17	DecisionTreeClassifier	f1	entropy	0.781725888324873
17	DecisionTreeClassifier	f1	gini	0.7539267015706806
17	DecisionTreeClassifier	f1	entropy	0.7918781725888325

18	DecisionTreeClassifier	f1	gini	0.7643979057591623
18	DecisionTreeClassifier	f1	entropy	0.7604166666666667
18	DecisionTreeClassifier	f1	gini	0.7668393782383419
18	DecisionTreeClassifier	f1	entropy	0.7959183673469389
18	DecisionTreeClassifier	f1	gini	0.7564766839378239
18	DecisionTreeClassifier	f1	entropy	0.7446808510638299
18	DecisionTreeClassifier	f1	gini	0.7628865979381444
18	DecisionTreeClassifier	f1	entropy	0.7708333333333333
19	DecisionTreeClassifier	f1	gini	0.7078651685393259
19	DecisionTreeClassifier	f1	entropy	0.7
19	DecisionTreeClassifier	f1	gini	0.7415730337078652
19	DecisionTreeClassifier	f1	entropy	0.6888888888888889
19	DecisionTreeClassifier	f1	gini	0.7005649717514125
19	DecisionTreeClassifier	f1	entropy	0.6892655367231638
19	DecisionTreeClassifier	f1	gini	0.7303370786516853
19	DecisionTreeClassifier	f1	entropy	0.7126436781609194
20	DecisionTreeClassifier	f1	gini	0.7241379310344828
20	DecisionTreeClassifier	f1	entropy	0.7431693989071038
20	DecisionTreeClassifier	f1	gini	0.7222222222222223
20	DecisionTreeClassifier	f1	entropy	0.7675675675675675
20	DecisionTreeClassifier	f1	gini	0.7303370786516853
20	DecisionTreeClassifier	f1	entropy	0.7403314917127072
20	DecisionTreeClassifier	f1	gini	0.7159090909090909
20	DecisionTreeClassifier	f1	entropy	0.768421052631579
21	DecisionTreeClassifier	f1	gini	0.7539267015706806
21	DecisionTreeClassifier	f1	entropy	0.7999999999999999
21	DecisionTreeClassifier	f1	gini	0.7772020725388601
21	DecisionTreeClassifier	f1	entropy	0.7894736842105263
21	DecisionTreeClassifier	f1	gini	0.7252747252747254
21	DecisionTreeClassifier	f1	entropy	0.7872340425531915
21	DecisionTreeClassifier	f1	gini	0.723404255319149
21	DecisionTreeClassifier	f1	entropy	0.8041237113402062
22	DecisionTreeClassifier	f1	gini	0.7291666666666666
22	DecisionTreeClassifier	f1	entropy	0.7272727272727273
22	DecisionTreeClassifier	f1	gini	0.7692307692307692
22	DecisionTreeClassifier	f1	entropy	0.7272727272727273
22	DecisionTreeClassifier	f1	gini	0.7513227513227513
22	DecisionTreeClassifier	f1	entropy	0.7135135135135136
22	DecisionTreeClassifier	f1	gini	0.743455497382199
22	DecisionTreeClassifier	f1	entropy	0.6994535519125683
23	DecisionTreeClassifier	f1	gini	0.7191011235955056
23	DecisionTreeClassifier	f1	entropy	0.7303370786516853
23	DecisionTreeClassifier	f1	gini	0.7272727272727274

23	DecisionTreeClassifier	f1	entropy	0.7142857142857143
23	DecisionTreeClassifier	f1	gini	0.6820809248554913
23	DecisionTreeClassifier	f1	entropy	0.7333333333333333
23	DecisionTreeClassifier	f1	gini	0.7045454545454546
23	DecisionTreeClassifier	f1	entropy	0.7472527472527474
24	DecisionTreeClassifier	f1	gini	0.7634408602150536
24	DecisionTreeClassifier	f1	entropy	0.7459459459459459
24	DecisionTreeClassifier	f1	gini	0.7845303867403314
24	DecisionTreeClassifier	f1	entropy	0.7351351351351352
24	DecisionTreeClassifier	f1	gini	0.7608695652173912
24	DecisionTreeClassifier	f1	entropy	0.7362637362637361
24	DecisionTreeClassifier	f1	gini	0.7845303867403314
24	DecisionTreeClassifier	f1	entropy	0.7111111111111111
25	DecisionTreeClassifier	f1	gini	0.7802197802197802
25	DecisionTreeClassifier	f1	entropy	0.7802197802197802
25	DecisionTreeClassifier	f1	gini	0.7666666666666667
25	DecisionTreeClassifier	f1	entropy	0.7582417582417582
25	DecisionTreeClassifier	f1	gini	0.8
25	DecisionTreeClassifier	f1	entropy	0.7403314917127072
25	DecisionTreeClassifier	f1	gini	0.7582417582417582
25	DecisionTreeClassifier	f1	entropy	0.7528089887640449

Table 8: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.6791044776119403
1	RandomForestClassifier	accuracy	5	0.6791044776119403
1	RandomForestClassifier	accuracy	5	0.7164179104477612
1	RandomForestClassifier	accuracy	5	0.7014925373134329
1	RandomForestClassifier	accuracy	50	0.746268656716418
1	RandomForestClassifier	accuracy	50	0.7388059701492538
1	RandomForestClassifier	accuracy	50	0.7238805970149254
1	RandomForestClassifier	accuracy	50	0.7761194029850746
2	RandomForestClassifier	accuracy	5	0.7014925373134329
2	RandomForestClassifier	accuracy	5	0.6940298507462687
2	RandomForestClassifier	accuracy	5	0.6716417910447762
2	RandomForestClassifier	accuracy	5	0.7089552238805971
2	RandomForestClassifier	accuracy	50	0.6940298507462687
2	RandomForestClassifier	accuracy	50	0.7164179104477612
2	RandomForestClassifier	accuracy	50	0.753731343283582
2	RandomForestClassifier	accuracy	50	0.7089552238805971

3	RandomForestClassifier	accuracy	5	0.706766917293233
3	RandomForestClassifier	accuracy	5	0.8045112781954887
3	RandomForestClassifier	accuracy	5	0.7218045112781954
3	RandomForestClassifier	accuracy	5	0.6766917293233082
3	RandomForestClassifier	accuracy	50	0.7518796992481203
3	RandomForestClassifier	accuracy	50	0.7293233082706767
3	RandomForestClassifier	accuracy	50	0.7593984962406015
3	RandomForestClassifier	accuracy	50	0.7744360902255639
4	RandomForestClassifier	accuracy	5	0.6842105263157895
4	RandomForestClassifier	accuracy	5	0.706766917293233
4	RandomForestClassifier	accuracy	5	0.7293233082706767
4	RandomForestClassifier	accuracy	5	0.7218045112781954
4	RandomForestClassifier	accuracy	50	0.7819548872180451
4	RandomForestClassifier	accuracy	50	0.7593984962406015
4	RandomForestClassifier	accuracy	50	0.7593984962406015
4	RandomForestClassifier	accuracy	50	0.7969924812030075
5	RandomForestClassifier	accuracy	5	0.7894736842105263
5	RandomForestClassifier	accuracy	5	0.7293233082706767
5	RandomForestClassifier	accuracy	5	0.6842105263157895
5	RandomForestClassifier	accuracy	5	0.6917293233082706
5	RandomForestClassifier	accuracy	50	0.7669172932330827
5	RandomForestClassifier	accuracy	50	0.7669172932330827
5	RandomForestClassifier	accuracy	50	0.7518796992481203
5	RandomForestClassifier	accuracy	50	0.7443609022556391
6	RandomForestClassifier	accuracy	5	0.6791044776119403
6	RandomForestClassifier	accuracy	5	0.7313432835820896
6	RandomForestClassifier	accuracy	5	0.7238805970149254
6	RandomForestClassifier	accuracy	5	0.6940298507462687
6	RandomForestClassifier	accuracy	50	0.746268656716418
6	RandomForestClassifier	accuracy	50	0.7686567164179104
6	RandomForestClassifier	accuracy	50	0.7611940298507462
6	RandomForestClassifier	accuracy	50	0.7611940298507462
7	RandomForestClassifier	accuracy	5	0.7238805970149254
7	RandomForestClassifier	accuracy	5	0.6940298507462687
7	RandomForestClassifier	accuracy	5	0.7164179104477612
7	RandomForestClassifier	accuracy	5	0.746268656716418
7	RandomForestClassifier	accuracy	50	0.7910447761194029
7	RandomForestClassifier	accuracy	50	0.753731343283582
7	RandomForestClassifier	accuracy	50	0.7761194029850746
7	RandomForestClassifier	accuracy	50	0.746268656716418
8	RandomForestClassifier	accuracy	5	0.6917293233082706
8	RandomForestClassifier	accuracy	5	0.7368421052631579
8	RandomForestClassifier	accuracy	5	0.6766917293233082

8	RandomForestClassifier	accuracy	5	0.6541353383458647
8	RandomForestClassifier	accuracy	50	0.7218045112781954
8	RandomForestClassifier	accuracy	50	0.7293233082706767
8	RandomForestClassifier	accuracy	50	0.7669172932330827
8	RandomForestClassifier	accuracy	50	0.7218045112781954
9	RandomForestClassifier	accuracy	5	0.6917293233082706
9	RandomForestClassifier	accuracy	5	0.7518796992481203
9	RandomForestClassifier	accuracy	5	0.7368421052631579
9	RandomForestClassifier	accuracy	5	0.7218045112781954
9	RandomForestClassifier	accuracy	50	0.7443609022556391
9	RandomForestClassifier	accuracy	50	0.7518796992481203
9	RandomForestClassifier	accuracy	50	0.7518796992481203
9	RandomForestClassifier	accuracy	50	0.7894736842105263
10	RandomForestClassifier	accuracy	5	0.6390977443609023
10	RandomForestClassifier	accuracy	5	0.6992481203007519
10	RandomForestClassifier	accuracy	5	0.7518796992481203
10	RandomForestClassifier	accuracy	5	0.6616541353383458
10	RandomForestClassifier	accuracy	50	0.7593984962406015
10	RandomForestClassifier	accuracy	50	0.7218045112781954
10	RandomForestClassifier	accuracy	50	0.7669172932330827
10	RandomForestClassifier	accuracy	50	0.7293233082706767
11	RandomForestClassifier	accuracy	5	0.7313432835820896
11	RandomForestClassifier	accuracy	5	0.7089552238805971
11	RandomForestClassifier	accuracy	5	0.6791044776119403
11	RandomForestClassifier	accuracy	5	0.746268656716418
11	RandomForestClassifier	accuracy	50	0.7761194029850746
11	RandomForestClassifier	accuracy	50	0.746268656716418
11	RandomForestClassifier	accuracy	50	0.7835820895522388
11	RandomForestClassifier	accuracy	50	0.7611940298507462
12	RandomForestClassifier	accuracy	5	0.7313432835820896
12	RandomForestClassifier	accuracy	5	0.7686567164179104
12	RandomForestClassifier	accuracy	5	0.7238805970149254
12	RandomForestClassifier	accuracy	5	0.6716417910447762
12	RandomForestClassifier	accuracy	50	0.7313432835820896
12	RandomForestClassifier	accuracy	50	0.746268656716418
12	RandomForestClassifier	accuracy	50	0.746268656716418
12	RandomForestClassifier	accuracy	50	0.753731343283582
13	RandomForestClassifier	accuracy	5	0.6616541353383458
13	RandomForestClassifier	accuracy	5	0.706766917293233
13	RandomForestClassifier	accuracy	5	0.7293233082706767
13	RandomForestClassifier	accuracy	5	0.6766917293233082
13	RandomForestClassifier	accuracy	50	0.7518796992481203
13	RandomForestClassifier	accuracy	50	0.7443609022556391

13	RandomForestClassifier	accuracy	50	0.7894736842105263
13	RandomForestClassifier	accuracy	50	0.8045112781954887
14	RandomForestClassifier	accuracy	5	0.7368421052631579
14	RandomForestClassifier	accuracy	5	0.6917293233082706
14	RandomForestClassifier	accuracy	5	0.6466165413533834
14	RandomForestClassifier	accuracy	5	0.6917293233082706
14	RandomForestClassifier	accuracy	50	0.7142857142857143
14	RandomForestClassifier	accuracy	50	0.7368421052631579
14	RandomForestClassifier	accuracy	50	0.7142857142857143
14	RandomForestClassifier	accuracy	50	0.7368421052631579
15	RandomForestClassifier	accuracy	5	0.6842105263157895
15	RandomForestClassifier	accuracy	5	0.6917293233082706
15	RandomForestClassifier	accuracy	5	0.706766917293233
15	RandomForestClassifier	accuracy	5	0.6691729323308271
15	RandomForestClassifier	accuracy	50	0.7593984962406015
15	RandomForestClassifier	accuracy	50	0.7293233082706767
15	RandomForestClassifier	accuracy	50	0.7368421052631579
15	RandomForestClassifier	accuracy	50	0.7368421052631579
16	RandomForestClassifier	accuracy	5	0.6119402985074627
16	RandomForestClassifier	accuracy	5	0.7014925373134329
16	RandomForestClassifier	accuracy	5	0.7089552238805971
16	RandomForestClassifier	accuracy	5	0.6791044776119403
16	RandomForestClassifier	accuracy	50	0.7089552238805971
16	RandomForestClassifier	accuracy	50	0.6940298507462687
16	RandomForestClassifier	accuracy	50	0.6940298507462687
16	RandomForestClassifier	accuracy	50	0.7164179104477612
17	RandomForestClassifier	accuracy	5	0.6567164179104478
17	RandomForestClassifier	accuracy	5	0.6791044776119403
17	RandomForestClassifier	accuracy	5	0.7089552238805971
17	RandomForestClassifier	accuracy	5	0.7014925373134329
17	RandomForestClassifier	accuracy	50	0.7388059701492538
17	RandomForestClassifier	accuracy	50	0.7835820895522388
17	RandomForestClassifier	accuracy	50	0.7686567164179104
17	RandomForestClassifier	accuracy	50	0.7313432835820896
18	RandomForestClassifier	accuracy	5	0.7142857142857143
18	RandomForestClassifier	accuracy	5	0.6691729323308271
18	RandomForestClassifier	accuracy	5	0.6992481203007519
18	RandomForestClassifier	accuracy	5	0.6691729323308271
18	RandomForestClassifier	accuracy	50	0.7744360902255639
18	RandomForestClassifier	accuracy	50	0.7368421052631579
18	RandomForestClassifier	accuracy	50	0.7518796992481203
18	RandomForestClassifier	accuracy	50	0.7593984962406015
19	RandomForestClassifier	accuracy	5	0.7443609022556391

19	RandomForestClassifier	accuracy	5	0.7443609022556391
19	RandomForestClassifier	accuracy	5	0.7518796992481203
19	RandomForestClassifier	accuracy	5	0.6691729323308271
19	RandomForestClassifier	accuracy	50	0.7593984962406015
19	RandomForestClassifier	accuracy	50	0.7142857142857143
19	RandomForestClassifier	accuracy	50	0.706766917293233
19	RandomForestClassifier	accuracy	50	0.7744360902255639
20	RandomForestClassifier	accuracy	5	0.7518796992481203
20	RandomForestClassifier	accuracy	5	0.6917293233082706
20	RandomForestClassifier	accuracy	5	0.7293233082706767
20	RandomForestClassifier	accuracy	5	0.7218045112781954
20	RandomForestClassifier	accuracy	50	0.7744360902255639
20	RandomForestClassifier	accuracy	50	0.7443609022556391
20	RandomForestClassifier	accuracy	50	0.7293233082706767
20	RandomForestClassifier	accuracy	50	0.7593984962406015
21	RandomForestClassifier	accuracy	5	0.6865671641791045
21	RandomForestClassifier	accuracy	5	0.7686567164179104
21	RandomForestClassifier	accuracy	5	0.7238805970149254
21	RandomForestClassifier	accuracy	5	0.7611940298507462
21	RandomForestClassifier	accuracy	50	0.7611940298507462
21	RandomForestClassifier	accuracy	50	0.753731343283582
21	RandomForestClassifier	accuracy	50	0.753731343283582
21	RandomForestClassifier	accuracy	50	0.7686567164179104
22	RandomForestClassifier	accuracy	5	0.6716417910447762
22	RandomForestClassifier	accuracy	5	0.7014925373134329
22	RandomForestClassifier	accuracy	5	0.7238805970149254
22	RandomForestClassifier	accuracy	5	0.7238805970149254
22	RandomForestClassifier	accuracy	50	0.7686567164179104
22	RandomForestClassifier	accuracy	50	0.7686567164179104
22	RandomForestClassifier	accuracy	50	0.746268656716418
22	RandomForestClassifier	accuracy	50	0.7611940298507462
23	RandomForestClassifier	accuracy	5	0.7142857142857143
23	RandomForestClassifier	accuracy	5	0.7142857142857143
23	RandomForestClassifier	accuracy	5	0.6917293233082706
23	RandomForestClassifier	accuracy	5	0.7142857142857143
23	RandomForestClassifier	accuracy	50	0.7744360902255639
23	RandomForestClassifier	accuracy	50	0.7443609022556391
23	RandomForestClassifier	accuracy	50	0.7142857142857143
23	RandomForestClassifier	accuracy	50	0.7669172932330827
24	RandomForestClassifier	accuracy	5	0.6842105263157895
24	RandomForestClassifier	accuracy	5	0.7142857142857143
24	RandomForestClassifier	accuracy	5	0.7142857142857143
24	RandomForestClassifier	accuracy	5	0.7368421052631579

24	RandomForestClassifier	accuracy	50	0.7894736842105263
24	RandomForestClassifier	accuracy	50	0.7894736842105263
24	RandomForestClassifier	accuracy	50	0.7819548872180451
24	RandomForestClassifier	accuracy	50	0.7819548872180451
25	RandomForestClassifier	accuracy	5	0.7142857142857143
25	RandomForestClassifier	accuracy	5	0.7368421052631579
25	RandomForestClassifier	accuracy	5	0.7142857142857143
25	RandomForestClassifier	accuracy	5	0.6917293233082706
25	RandomForestClassifier	accuracy	50	0.7218045112781954
25	RandomForestClassifier	accuracy	50	0.7744360902255639
25	RandomForestClassifier	accuracy	50	0.7518796992481203
25	RandomForestClassifier	accuracy	50	0.7669172932330827
1	RandomForestClassifier	f1	5	0.774869109947644
1	RandomForestClassifier	f1	5	0.7839195979899497
1	RandomForestClassifier	f1	5	0.806122448979592
1	RandomForestClassifier	f1	5	0.8
1	RandomForestClassifier	f1	50	0.8282828282828283
1	RandomForestClassifier	f1	50	0.8292682926829268
1	RandomForestClassifier	f1	50	0.8159203980099503
1	RandomForestClassifier	f1	50	0.8484848484848485
2	RandomForestClassifier	f1	5	0.7979797979797979
2	RandomForestClassifier	f1	5	0.7960199004975125
2	RandomForestClassifier	f1	5	0.7684210526315789
2	RandomForestClassifier	f1	5	0.8059701492537313
2	RandomForestClassifier	f1	50	0.8
2	RandomForestClassifier	f1	50	0.8173076923076923
2	RandomForestClassifier	f1	50	0.8358208955223881
2	RandomForestClassifier	f1	50	0.8133971291866029
3	RandomForestClassifier	f1	5	0.7979274611398963
3	RandomForestClassifier	f1	5	0.8659793814432989
3	RandomForestClassifier	f1	5	0.8042328042328043
3	RandomForestClassifier	f1	5	0.7724867724867724
3	RandomForestClassifier	f1	50	0.8374384236453202
3	RandomForestClassifier	f1	50	0.8163265306122449
3	RandomForestClassifier	f1	50	0.84
3	RandomForestClassifier	f1	50	0.8484848484848486
4	RandomForestClassifier	f1	5	0.7857142857142857
4	RandomForestClassifier	f1	5	0.8059701492537312
4	RandomForestClassifier	f1	5	0.823529411764706
4	RandomForestClassifier	f1	5	0.8159203980099504
4	RandomForestClassifier	f1	50	0.8571428571428572
4	RandomForestClassifier	f1	50	0.8476190476190476
4	RandomForestClassifier	f1	50	0.8446601941747574

4	RandomForestClassifier	f1	50	0.8708133971291866
5	RandomForestClassifier	f1	5	0.8510638297872339
5	RandomForestClassifier	f1	5	0.8181818181818182
5	RandomForestClassifier	f1	5	0.7857142857142857
5	RandomForestClassifier	f1	5	0.7999999999999999
5	RandomForestClassifier	f1	50	0.8457711442786069
5	RandomForestClassifier	f1	50	0.848780487804878
5	RandomForestClassifier	f1	50	0.8374384236453202
5	RandomForestClassifier	f1	50	0.8316831683168318
6	RandomForestClassifier	f1	5	0.7860696517412935
6	RandomForestClassifier	f1	5	0.8235294117647058
6	RandomForestClassifier	f1	5	0.8121827411167513
6	RandomForestClassifier	f1	5	0.7960199004975125
6	RandomForestClassifier	f1	50	0.8333333333333334
6	RandomForestClassifier	f1	50	0.848780487804878
6	RandomForestClassifier	f1	50	0.8446601941747574
6	RandomForestClassifier	f1	50	0.8461538461538461
7	RandomForestClassifier	f1	5	0.8177339901477833
7	RandomForestClassifier	f1	5	0.7918781725888325
7	RandomForestClassifier	f1	5	0.8099999999999999
7	RandomForestClassifier	f1	5	0.8316831683168316
7	RandomForestClassifier	f1	50	0.8627450980392157
7	RandomForestClassifier	f1	50	0.8421052631578948
7	RandomForestClassifier	f1	50	0.854368932038835
7	RandomForestClassifier	f1	50	0.8333333333333334
8	RandomForestClassifier	f1	5	0.7939698492462313
8	RandomForestClassifier	f1	5	0.8223350253807107
8	RandomForestClassifier	f1	5	0.7724867724867724
8	RandomForestClassifier	f1	5	0.7526881720430108
8	RandomForestClassifier	f1	50	0.8140703517587939
8	RandomForestClassifier	f1	50	0.82
8	RandomForestClassifier	f1	50	0.8457711442786069
8	RandomForestClassifier	f1	50	0.821256038647343
9	RandomForestClassifier	f1	5	0.7980295566502462
9	RandomForestClassifier	f1	5	0.8341708542713568
9	RandomForestClassifier	f1	5	0.8292682926829268
9	RandomForestClassifier	f1	5	0.8121827411167513
9	RandomForestClassifier	f1	50	0.8349514563106796
9	RandomForestClassifier	f1	50	0.8405797101449276
9	RandomForestClassifier	f1	50	0.8421052631578947
9	RandomForestClassifier	f1	50	0.8653846153846155
10	RandomForestClassifier	f1	5	0.7500000000000001
10	RandomForestClassifier	f1	5	0.7999999999999999

10	RandomForestClassifier	f1	5	0.823529411764706
10	RandomForestClassifier	f1	5	0.7715736040609137
10	RandomForestClassifier	f1	50	0.8350515463917527
10	RandomForestClassifier	f1	50	0.8140703517587939
10	RandomForestClassifier	f1	50	0.8426395939086294
10	RandomForestClassifier	f1	50	0.8181818181818182
11	RandomForestClassifier	f1	5	0.8144329896907218
11	RandomForestClassifier	f1	5	0.7979274611398963
11	RandomForestClassifier	f1	5	0.7724867724867724
11	RandomForestClassifier	f1	5	0.8191489361702128
11	RandomForestClassifier	f1	50	0.8484848484848485
11	RandomForestClassifier	f1	50	0.8300000000000001
11	RandomForestClassifier	f1	50	0.852791878172589
11	RandomForestClassifier	f1	50	0.8415841584158417
12	RandomForestClassifier	f1	5	0.8144329896907218
12	RandomForestClassifier	f1	5	0.8472906403940887
12	RandomForestClassifier	f1	5	0.8229665071770335
12	RandomForestClassifier	f1	5	0.7731958762886597
12	RandomForestClassifier	f1	50	0.8252427184466019
12	RandomForestClassifier	f1	50	0.8349514563106796
12	RandomForestClassifier	f1	50	0.8316831683168316
12	RandomForestClassifier	f1	50	0.8374384236453202
13	RandomForestClassifier	f1	5	0.7715736040609137
13	RandomForestClassifier	f1	5	0.8020304568527918
13	RandomForestClassifier	f1	5	0.8181818181818182
13	RandomForestClassifier	f1	5	0.7794871794871795
13	RandomForestClassifier	f1	50	0.835820895522388
13	RandomForestClassifier	f1	50	0.83
13	RandomForestClassifier	f1	50	0.86
13	RandomForestClassifier	f1	50	0.8673469387755103
14	RandomForestClassifier	f1	5	0.8186528497409327
14	RandomForestClassifier	f1	5	0.7875647668393783
14	RandomForestClassifier	f1	5	0.7638190954773869
14	RandomForestClassifier	f1	5	0.7918781725888324
14	RandomForestClassifier	f1	50	0.8080808080808081
14	RandomForestClassifier	f1	50	0.8292682926829268
14	RandomForestClassifier	f1	50	0.8118811881188119
14	RandomForestClassifier	f1	50	0.832535885167464
15	RandomForestClassifier	f1	5	0.7920792079207921
15	RandomForestClassifier	f1	5	0.7999999999999999
15	RandomForestClassifier	f1	5	0.7999999999999999
15	RandomForestClassifier	f1	5	0.7777777777777777
15	RandomForestClassifier	f1	50	0.8476190476190476

15	RandomForestClassifier	f1	50	0.823529411764706
15	RandomForestClassifier	f1	50	0.832535885167464
15	RandomForestClassifier	f1	50	0.832535885167464
16	RandomForestClassifier	f1	5	0.7291666666666666
16	RandomForestClassifier	f1	5	0.8
16	RandomForestClassifier	f1	5	0.8115942028985508
16	RandomForestClassifier	f1	5	0.7902439024390245
16	RandomForestClassifier	f1	50	0.8115942028985508
16	RandomForestClassifier	f1	50	0.8056872037914692
16	RandomForestClassifier	f1	50	0.8038277511961722
16	RandomForestClassifier	f1	50	0.819047619047619
17	RandomForestClassifier	f1	5	0.7653061224489796
17	RandomForestClassifier	f1	5	0.7772020725388601
17	RandomForestClassifier	f1	5	0.7914438502673796
17	RandomForestClassifier	f1	5	0.7979797979797979
17	RandomForestClassifier	f1	50	0.8205128205128204
17	RandomForestClassifier	f1	50	0.8542713567839195
17	RandomForestClassifier	f1	50	0.845771144278607
17	RandomForestClassifier	f1	50	0.8200000000000001
18	RandomForestClassifier	f1	5	0.8041237113402062
18	RandomForestClassifier	f1	5	0.7731958762886598
18	RandomForestClassifier	f1	5	0.7894736842105262
18	RandomForestClassifier	f1	5	0.7755102040816327
18	RandomForestClassifier	f1	50	0.854368932038835
18	RandomForestClassifier	f1	50	0.8241206030150753
18	RandomForestClassifier	f1	50	0.8374384236453202
18	RandomForestClassifier	f1	50	0.8431372549019608
19	RandomForestClassifier	f1	5	0.8247422680412373
19	RandomForestClassifier	f1	5	0.8247422680412373
19	RandomForestClassifier	f1	5	0.8341708542713568
19	RandomForestClassifier	f1	5	0.7731958762886598
19	RandomForestClassifier	f1	50	0.8431372549019608
19	RandomForestClassifier	f1	50	0.8155339805825244
19	RandomForestClassifier	f1	50	0.8115942028985507
19	RandomForestClassifier	f1	50	0.8529411764705881
20	RandomForestClassifier	f1	5	0.83248730964467
20	RandomForestClassifier	f1	5	0.7853403141361257
20	RandomForestClassifier	f1	5	0.8125
20	RandomForestClassifier	f1	5	0.8121827411167513
20	RandomForestClassifier	f1	50	0.846938775510204
20	RandomForestClassifier	f1	50	0.8333333333333334
20	RandomForestClassifier	f1	50	0.8163265306122449
20	RandomForestClassifier	f1	50	0.8415841584158414

21	RandomForestClassifier	f1	5	0.7857142857142858
21	RandomForestClassifier	f1	5	0.845771144278607
21	RandomForestClassifier	f1	5	0.806282722513089
21	RandomForestClassifier	f1	5	0.8383838383838383
21	RandomForestClassifier	f1	50	0.8383838383838383
21	RandomForestClassifier	f1	50	0.8358208955223881
21	RandomForestClassifier	f1	50	0.8307692307692307
21	RandomForestClassifier	f1	50	0.8442211055276382
22	RandomForestClassifier	f1	5	0.78
22	RandomForestClassifier	f1	5	0.7872340425531915
22	RandomForestClassifier	f1	5	0.8140703517587939
22	RandomForestClassifier	f1	5	0.8082901554404145
22	RandomForestClassifier	f1	50	0.8502415458937199
22	RandomForestClassifier	f1	50	0.848780487804878
22	RandomForestClassifier	f1	50	0.8300000000000001
22	RandomForestClassifier	f1	50	0.8415841584158417
23	RandomForestClassifier	f1	5	0.8
23	RandomForestClassifier	f1	5	0.81
23	RandomForestClassifier	f1	5	0.7939698492462313
23	RandomForestClassifier	f1	5	0.8
23	RandomForestClassifier	f1	50	0.854368932038835
23	RandomForestClassifier	f1	50	0.8316831683168318
23	RandomForestClassifier	f1	50	0.81
23	RandomForestClassifier	f1	50	0.8472906403940887
24	RandomForestClassifier	f1	5	0.79
24	RandomForestClassifier	f1	5	0.8080808080808081
24	RandomForestClassifier	f1	5	0.8118811881188119
24	RandomForestClassifier	f1	5	0.8241206030150753
24	RandomForestClassifier	f1	50	0.8640776699029126
24	RandomForestClassifier	f1	50	0.8640776699029126
24	RandomForestClassifier	f1	50	0.8571428571428572
24	RandomForestClassifier	f1	50	0.8585365853658538
25	RandomForestClassifier	f1	5	0.8080808080808081
25	RandomForestClassifier	f1	5	0.8292682926829268
25	RandomForestClassifier	f1	5	0.8118811881188119
25	RandomForestClassifier	f1	5	0.7897435897435897
25	RandomForestClassifier	f1	50	0.821256038647343
25	RandomForestClassifier	f1	50	0.854368932038835
25	RandomForestClassifier	f1	50	0.8421052631578947
25	RandomForestClassifier	f1	50	0.8502415458937198

Table 9: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.7238805970149254
1	SVC	accuracy	linear	0.7238805970149254
1	SVC	accuracy	rbf	0.753731343283582
1	SVC	accuracy	rbf	0.753731343283582
1	SVC	accuracy	linear	0.7238805970149254
1	SVC	accuracy	linear	0.7238805970149254
1	SVC	accuracy	rbf	0.753731343283582
1	SVC	accuracy	rbf	0.753731343283582
2	SVC	accuracy	linear	0.746268656716418
2	SVC	accuracy	linear	0.746268656716418
2	SVC	accuracy	rbf	0.7089552238805971
2	SVC	accuracy	rbf	0.7089552238805971
2	SVC	accuracy	linear	0.746268656716418
2	SVC	accuracy	linear	0.746268656716418
2	SVC	accuracy	rbf	0.7089552238805971
2	SVC	accuracy	rbf	0.7089552238805971
3	SVC	accuracy	linear	0.7142857142857143
3	SVC	accuracy	linear	0.7142857142857143
3	SVC	accuracy	rbf	0.7744360902255639
3	SVC	accuracy	rbf	0.7744360902255639
3	SVC	accuracy	linear	0.7142857142857143
3	SVC	accuracy	linear	0.7142857142857143
3	SVC	accuracy	rbf	0.7744360902255639
3	SVC	accuracy	rbf	0.7744360902255639
4	SVC	accuracy	linear	0.7443609022556391
4	SVC	accuracy	linear	0.7443609022556391
4	SVC	accuracy	rbf	0.7819548872180451
4	SVC	accuracy	rbf	0.7819548872180451
4	SVC	accuracy	linear	0.7443609022556391
4	SVC	accuracy	linear	0.7443609022556391
4	SVC	accuracy	rbf	0.7819548872180451
4	SVC	accuracy	rbf	0.7819548872180451
5	SVC	accuracy	linear	0.7744360902255639
5	SVC	accuracy	linear	0.7744360902255639
5	SVC	accuracy	rbf	0.7293233082706767
5	SVC	accuracy	rbf	0.7293233082706767
5	SVC	accuracy	linear	0.7744360902255639
5	SVC	accuracy	linear	0.7744360902255639
5	SVC	accuracy	rbf	0.7293233082706767
5	SVC	accuracy	rbf	0.7293233082706767
6	SVC	accuracy	linear	0.7388059701492538
6	SVC	accuracy	linear	0.7388059701492538

6	SVC	accuracy	rbf	0.746268656716418
6	SVC	accuracy	rbf	0.746268656716418
6	SVC	accuracy	linear	0.7388059701492538
6	SVC	accuracy	linear	0.7388059701492538
6	SVC	accuracy	rbf	0.746268656716418
6	SVC	accuracy	rbf	0.746268656716418
7	SVC	accuracy	linear	0.6791044776119403
7	SVC	accuracy	linear	0.6791044776119403
7	SVC	accuracy	rbf	0.7313432835820896
7	SVC	accuracy	rbf	0.7313432835820896
7	SVC	accuracy	linear	0.6791044776119403
7	SVC	accuracy	linear	0.6791044776119403
7	SVC	accuracy	rbf	0.7313432835820896
7	SVC	accuracy	rbf	0.7313432835820896
8	SVC	accuracy	linear	0.7518796992481203
8	SVC	accuracy	linear	0.7518796992481203
8	SVC	accuracy	rbf	0.7443609022556391
8	SVC	accuracy	rbf	0.7443609022556391
8	SVC	accuracy	linear	0.7518796992481203
8	SVC	accuracy	linear	0.7518796992481203
8	SVC	accuracy	rbf	0.7443609022556391
8	SVC	accuracy	rbf	0.7443609022556391
9	SVC	accuracy	linear	0.7669172932330827
9	SVC	accuracy	linear	0.7669172932330827
9	SVC	accuracy	rbf	0.7218045112781954
9	SVC	accuracy	rbf	0.7218045112781954
9	SVC	accuracy	linear	0.7669172932330827
9	SVC	accuracy	linear	0.7669172932330827
9	SVC	accuracy	rbf	0.7218045112781954
9	SVC	accuracy	rbf	0.7218045112781954
10	SVC	accuracy	linear	0.7368421052631579
10	SVC	accuracy	linear	0.7368421052631579
10	SVC	accuracy	rbf	0.7518796992481203
10	SVC	accuracy	rbf	0.7518796992481203
10	SVC	accuracy	linear	0.7368421052631579
10	SVC	accuracy	linear	0.7368421052631579
10	SVC	accuracy	rbf	0.7518796992481203
10	SVC	accuracy	rbf	0.7518796992481203
11	SVC	accuracy	linear	0.7388059701492538
11	SVC	accuracy	linear	0.7388059701492538
11	SVC	accuracy	rbf	0.8059701492537313
11	SVC	accuracy	rbf	0.8059701492537313
11	SVC	accuracy	linear	0.7388059701492538

11	SVC	accuracy	linear	0.7388059701492538
11	SVC	accuracy	rbf	0.8059701492537313
11	SVC	accuracy	rbf	0.8059701492537313
12	SVC	accuracy	linear	0.746268656716418
12	SVC	accuracy	linear	0.746268656716418
12	SVC	accuracy	rbf	0.753731343283582
12	SVC	accuracy	rbf	0.753731343283582
12	SVC	accuracy	linear	0.746268656716418
12	SVC	accuracy	linear	0.746268656716418
12	SVC	accuracy	rbf	0.753731343283582
12	SVC	accuracy	rbf	0.753731343283582
13	SVC	accuracy	linear	0.7969924812030075
13	SVC	accuracy	linear	0.7969924812030075
13	SVC	accuracy	rbf	0.7368421052631579
13	SVC	accuracy	rbf	0.7368421052631579
13	SVC	accuracy	linear	0.7969924812030075
13	SVC	accuracy	linear	0.7969924812030075
13	SVC	accuracy	rbf	0.7368421052631579
13	SVC	accuracy	rbf	0.7368421052631579
14	SVC	accuracy	linear	0.7443609022556391
14	SVC	accuracy	linear	0.7443609022556391
14	SVC	accuracy	rbf	0.7593984962406015
14	SVC	accuracy	rbf	0.7593984962406015
14	SVC	accuracy	linear	0.7443609022556391
14	SVC	accuracy	linear	0.7443609022556391
14	SVC	accuracy	rbf	0.7593984962406015
14	SVC	accuracy	rbf	0.7593984962406015
15	SVC	accuracy	linear	0.6992481203007519
15	SVC	accuracy	linear	0.6992481203007519
15	SVC	accuracy	rbf	0.7443609022556391
15	SVC	accuracy	rbf	0.7443609022556391
15	SVC	accuracy	linear	0.6992481203007519
15	SVC	accuracy	linear	0.6992481203007519
15	SVC	accuracy	rbf	0.7443609022556391
15	SVC	accuracy	rbf	0.7443609022556391
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	rbf	0.7313432835820896
16	SVC	accuracy	rbf	0.7313432835820896
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	rbf	0.7313432835820896
16	SVC	accuracy	rbf	0.7313432835820896

17	SVC	accuracy	linear	0.7238805970149254
17	SVC	accuracy	linear	0.7238805970149254
17	SVC	accuracy	rbf	0.7388059701492538
17	SVC	accuracy	rbf	0.7388059701492538
17	SVC	accuracy	linear	0.7238805970149254
17	SVC	accuracy	linear	0.7238805970149254
17	SVC	accuracy	rbf	0.7388059701492538
17	SVC	accuracy	rbf	0.7388059701492538
18	SVC	accuracy	linear	0.7518796992481203
18	SVC	accuracy	linear	0.7518796992481203
18	SVC	accuracy	rbf	0.7293233082706767
18	SVC	accuracy	rbf	0.7293233082706767
18	SVC	accuracy	linear	0.7518796992481203
18	SVC	accuracy	linear	0.7518796992481203
18	SVC	accuracy	rbf	0.7293233082706767
18	SVC	accuracy	rbf	0.7293233082706767
19	SVC	accuracy	linear	0.7518796992481203
19	SVC	accuracy	linear	0.7518796992481203
19	SVC	accuracy	rbf	0.7669172932330827
19	SVC	accuracy	rbf	0.7669172932330827
19	SVC	accuracy	linear	0.7518796992481203
19	SVC	accuracy	linear	0.7518796992481203
19	SVC	accuracy	rbf	0.7669172932330827
19	SVC	accuracy	rbf	0.7669172932330827
20	SVC	accuracy	linear	0.7443609022556391
20	SVC	accuracy	linear	0.7443609022556391
20	SVC	accuracy	rbf	0.7744360902255639
20	SVC	accuracy	rbf	0.7744360902255639
20	SVC	accuracy	linear	0.7443609022556391
20	SVC	accuracy	linear	0.7443609022556391
20	SVC	accuracy	rbf	0.7744360902255639
20	SVC	accuracy	rbf	0.7744360902255639
21	SVC	accuracy	linear	0.7313432835820896
21	SVC	accuracy	linear	0.7313432835820896
21	SVC	accuracy	rbf	0.7238805970149254
21	SVC	accuracy	rbf	0.7238805970149254
21	SVC	accuracy	linear	0.7313432835820896
21	SVC	accuracy	linear	0.7313432835820896
21	SVC	accuracy	rbf	0.7238805970149254
21	SVC	accuracy	rbf	0.7238805970149254
22	SVC	accuracy	linear	0.7686567164179104
22	SVC	accuracy	linear	0.7686567164179104
22	SVC	accuracy	rbf	0.7835820895522388

22	SVC	accuracy	rbf	0.7835820895522388
22	SVC	accuracy	linear	0.7686567164179104
22	SVC	accuracy	linear	0.7686567164179104
22	SVC	accuracy	rbf	0.7835820895522388
22	SVC	accuracy	rbf	0.7835820895522388
23	SVC	accuracy	linear	0.7368421052631579
23	SVC	accuracy	linear	0.7368421052631579
23	SVC	accuracy	rbf	0.7593984962406015
23	SVC	accuracy	rbf	0.7593984962406015
23	SVC	accuracy	linear	0.7368421052631579
23	SVC	accuracy	linear	0.7368421052631579
23	SVC	accuracy	rbf	0.7593984962406015
23	SVC	accuracy	rbf	0.7593984962406015
24	SVC	accuracy	linear	0.7218045112781954
24	SVC	accuracy	linear	0.7218045112781954
24	SVC	accuracy	rbf	0.7593984962406015
24	SVC	accuracy	rbf	0.7593984962406015
24	SVC	accuracy	linear	0.7218045112781954
24	SVC	accuracy	linear	0.7218045112781954
24	SVC	accuracy	rbf	0.7593984962406015
24	SVC	accuracy	rbf	0.7593984962406015
25	SVC	accuracy	linear	0.7518796992481203
25	SVC	accuracy	linear	0.7518796992481203
25	SVC	accuracy	rbf	0.7368421052631579
25	SVC	accuracy	rbf	0.7368421052631579
25	SVC	accuracy	linear	0.7518796992481203
25	SVC	accuracy	linear	0.7518796992481203
25	SVC	accuracy	rbf	0.7368421052631579
25	SVC	accuracy	rbf	0.7368421052631579
1	SVC	f1	linear	0.8082901554404145
1	SVC	f1	linear	0.8082901554404145
1	SVC	f1	rbf	0.8421052631578948
1	SVC	f1	rbf	0.8421052631578948
1	SVC	f1	linear	0.8082901554404145
1	SVC	f1	linear	0.8082901554404145
1	SVC	f1	rbf	0.8421052631578948
1	SVC	f1	rbf	0.8421052631578948
2	SVC	f1	linear	0.8265306122448979
2	SVC	f1	linear	0.8265306122448979
2	SVC	f1	rbf	0.8133971291866029
2	SVC	f1	rbf	0.8133971291866029
2	SVC	f1	linear	0.8265306122448979
2	SVC	f1	linear	0.8265306122448979

2	SVC	f1	rbf	0.8133971291866029
2	SVC	f1	rbf	0.8133971291866029
3	SVC	f1	linear	0.8020833333333334
3	SVC	f1	linear	0.8020833333333334
3	SVC	f1	rbf	0.854368932038835
3	SVC	f1	rbf	0.854368932038835
3	SVC	f1	linear	0.8020833333333334
3	SVC	f1	linear	0.8020833333333334
3	SVC	f1	rbf	0.854368932038835
3	SVC	f1	rbf	0.854368932038835
4	SVC	f1	linear	0.8247422680412373
4	SVC	f1	linear	0.8247422680412373
4	SVC	f1	rbf	0.8599033816425121
4	SVC	f1	rbf	0.8599033816425121
4	SVC	f1	linear	0.8247422680412373
4	SVC	f1	linear	0.8247422680412373
4	SVC	f1	rbf	0.8599033816425121
4	SVC	f1	rbf	0.8599033816425121
5	SVC	f1	linear	0.84375
5	SVC	f1	linear	0.84375
5	SVC	f1	rbf	0.8285714285714285
5	SVC	f1	rbf	0.8285714285714285
5	SVC	f1	linear	0.84375
5	SVC	f1	linear	0.84375
5	SVC	f1	rbf	0.8285714285714285
5	SVC	f1	rbf	0.8285714285714285
6	SVC	f1	linear	0.8186528497409327
6	SVC	f1	linear	0.8186528497409327
6	SVC	f1	rbf	0.8349514563106796
6	SVC	f1	rbf	0.8349514563106796
6	SVC	f1	linear	0.8186528497409327
6	SVC	f1	linear	0.8186528497409327
6	SVC	f1	rbf	0.8349514563106796
6	SVC	f1	rbf	0.8349514563106796
7	SVC	f1	linear	0.7839195979899497
7	SVC	f1	linear	0.7839195979899497
7	SVC	f1	rbf	0.8301886792452831
7	SVC	f1	rbf	0.8301886792452831
7	SVC	f1	linear	0.7839195979899497
7	SVC	f1	linear	0.7839195979899497
7	SVC	f1	rbf	0.8301886792452831
7	SVC	f1	rbf	0.8301886792452831
8	SVC	f1	linear	0.83248730964467

8	SVC	f1	linear	0.83248730964467
8	SVC	f1	rbf	0.8333333333333334
8	SVC	f1	rbf	0.8333333333333334
8	SVC	f1	linear	0.83248730964467
8	SVC	f1	linear	0.83248730964467
8	SVC	f1	rbf	0.8333333333333334
8	SVC	f1	rbf	0.8333333333333334
9	SVC	f1	linear	0.8426395939086294
9	SVC	f1	linear	0.8426395939086294
9	SVC	f1	rbf	0.8246445497630333
9	SVC	f1	rbf	0.8246445497630333
9	SVC	f1	linear	0.8426395939086294
9	SVC	f1	linear	0.8426395939086294
9	SVC	f1	rbf	0.8246445497630333
9	SVC	f1	rbf	0.8246445497630333
10	SVC	f1	linear	0.8186528497409327
10	SVC	f1	linear	0.8186528497409327
10	SVC	f1	rbf	0.8405797101449276
10	SVC	f1	rbf	0.8405797101449276
10	SVC	f1	linear	0.8186528497409327
10	SVC	f1	linear	0.8186528497409327
10	SVC	f1	rbf	0.8405797101449276
10	SVC	f1	rbf	0.8405797101449276
11	SVC	f1	linear	0.808743169398907
11	SVC	f1	linear	0.808743169398907
11	SVC	f1	rbf	0.8700000000000001
11	SVC	f1	rbf	0.8700000000000001
11	SVC	f1	linear	0.808743169398907
11	SVC	f1	linear	0.808743169398907
11	SVC	f1	rbf	0.8700000000000001
11	SVC	f1	rbf	0.8700000000000001
12	SVC	f1	linear	0.8300000000000001
12	SVC	f1	linear	0.8300000000000001
12	SVC	f1	rbf	0.8436018957345972
12	SVC	f1	rbf	0.8436018957345972
12	SVC	f1	linear	0.8300000000000001
12	SVC	f1	linear	0.8300000000000001
12	SVC	f1	rbf	0.8436018957345972
12	SVC	f1	rbf	0.8436018957345972
13	SVC	f1	linear	0.8586387434554974
13	SVC	f1	linear	0.8586387434554974
13	SVC	f1	rbf	0.8309178743961353
13	SVC	f1	rbf	0.8309178743961353

13	SVC	f1	linear	0.8586387434554974
13	SVC	f1	linear	0.8586387434554974
13	SVC	f1	rbf	0.8309178743961353
13	SVC	f1	rbf	0.8309178743961353
14	SVC	f1	linear	0.8282828282828283
14	SVC	f1	linear	0.8282828282828283
14	SVC	f1	rbf	0.8446601941747574
14	SVC	f1	rbf	0.8446601941747574
14	SVC	f1	linear	0.8282828282828283
14	SVC	f1	linear	0.8282828282828283
14	SVC	f1	rbf	0.8446601941747574
14	SVC	f1	rbf	0.8446601941747574
15	SVC	f1	linear	0.801980198019802
15	SVC	f1	linear	0.801980198019802
15	SVC	f1	rbf	0.8349514563106796
15	SVC	f1	rbf	0.8349514563106796
15	SVC	f1	linear	0.801980198019802
15	SVC	f1	linear	0.801980198019802
15	SVC	f1	rbf	0.8349514563106796
15	SVC	f1	rbf	0.8349514563106796
16	SVC	f1	linear	0.803921568627451
16	SVC	f1	linear	0.803921568627451
16	SVC	f1	rbf	0.8317757009345795
16	SVC	f1	rbf	0.8317757009345795
16	SVC	f1	linear	0.803921568627451
16	SVC	f1	linear	0.803921568627451
16	SVC	f1	rbf	0.8317757009345795
16	SVC	f1	rbf	0.8317757009345795
17	SVC	f1	linear	0.8042328042328043
17	SVC	f1	linear	0.8042328042328043
17	SVC	f1	rbf	0.8292682926829268
17	SVC	f1	rbf	0.8292682926829268
17	SVC	f1	linear	0.8042328042328043
17	SVC	f1	linear	0.8042328042328043
17	SVC	f1	rbf	0.8292682926829268
17	SVC	f1	rbf	0.8292682926829268
18	SVC	f1	linear	0.83248730964467
18	SVC	f1	linear	0.83248730964467
18	SVC	f1	rbf	0.8301886792452831
18	SVC	f1	rbf	0.8301886792452831
18	SVC	f1	linear	0.83248730964467
18	SVC	f1	linear	0.83248730964467
18	SVC	f1	rbf	0.8301886792452831

18	SVC	f1	rbf	0.8301886792452831
19	SVC	f1	linear	0.83248730964467
19	SVC	f1	linear	0.83248730964467
19	SVC	f1	rbf	0.848780487804878
19	SVC	f1	rbf	0.848780487804878
19	SVC	f1	linear	0.83248730964467
19	SVC	f1	linear	0.83248730964467
19	SVC	f1	rbf	0.848780487804878
19	SVC	f1	rbf	0.848780487804878
20	SVC	f1	linear	0.8247422680412373
20	SVC	f1	linear	0.8247422680412373
20	SVC	f1	rbf	0.854368932038835
20	SVC	f1	rbf	0.854368932038835
20	SVC	f1	linear	0.8247422680412373
20	SVC	f1	linear	0.8247422680412373
20	SVC	f1	rbf	0.854368932038835
20	SVC	f1	rbf	0.854368932038835
21	SVC	f1	linear	0.8105263157894737
21	SVC	f1	linear	0.8105263157894737
21	SVC	f1	rbf	0.8195121951219513
21	SVC	f1	rbf	0.8195121951219513
21	SVC	f1	linear	0.8105263157894737
21	SVC	f1	linear	0.8105263157894737
21	SVC	f1	rbf	0.8195121951219513
21	SVC	f1	rbf	0.8195121951219513
22	SVC	f1	linear	0.841025641025641
22	SVC	f1	linear	0.841025641025641
22	SVC	f1	rbf	0.8585365853658538
22	SVC	f1	rbf	0.8585365853658538
22	SVC	f1	linear	0.841025641025641
22	SVC	f1	linear	0.841025641025641
22	SVC	f1	rbf	0.8585365853658538
22	SVC	f1	rbf	0.8585365853658538
23	SVC	f1	linear	0.8241206030150753
23	SVC	f1	linear	0.8241206030150753
23	SVC	f1	rbf	0.8461538461538463
23	SVC	f1	rbf	0.8461538461538463
23	SVC	f1	linear	0.8241206030150753
23	SVC	f1	linear	0.8241206030150753
23	SVC	f1	rbf	0.8461538461538463
23	SVC	f1	rbf	0.8461538461538463
24	SVC	f1	linear	0.8140703517587939
24	SVC	f1	linear	0.8140703517587939

24	SVC	f1	rbf	0.8461538461538463
24	SVC	f1	rbf	0.8461538461538463
24	SVC	f1	linear	0.8140703517587939
24	SVC	f1	linear	0.8140703517587939
24	SVC	f1	rbf	0.8461538461538463
24	SVC	f1	rbf	0.8461538461538463
25	SVC	f1	linear	0.8290155440414508
25	SVC	f1	linear	0.8290155440414508
25	SVC	f1	rbf	0.8292682926829268
25	SVC	f1	rbf	0.8292682926829268
25	SVC	f1	linear	0.8290155440414508
25	SVC	f1	linear	0.8290155440414508
25	SVC	f1	rbf	0.8292682926829268
25	SVC	f1	rbf	0.8292682926829268

Table 10: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
1	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
1	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
1	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
1	DecisionTreeClassifier	accuracy	gini	0.664179104477612
1	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
1	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
1	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
2	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
2	DecisionTreeClassifier	accuracy	entropy	0.6119402985074627
2	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
2	DecisionTreeClassifier	accuracy	entropy	0.5895522388059702
2	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
2	DecisionTreeClassifier	accuracy	entropy	0.5895522388059702
2	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
2	DecisionTreeClassifier	accuracy	entropy	0.6044776119402985
3	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
3	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
3	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
3	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
3	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
3	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
3	DecisionTreeClassifier	accuracy	gini	0.706766917293233

3	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
4	DecisionTreeClassifier	accuracy	gini	0.706766917293233
4	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
4	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
4	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
4	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
4	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
4	DecisionTreeClassifier	accuracy	gini	0.706766917293233
4	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
5	DecisionTreeClassifier	accuracy	gini	0.706766917293233
5	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
5	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
5	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
5	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
5	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
5	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
5	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
6	DecisionTreeClassifier	accuracy	gini	0.7313432835820896
6	DecisionTreeClassifier	accuracy	entropy	0.746268656716418
6	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
6	DecisionTreeClassifier	accuracy	entropy	0.753731343283582
6	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
6	DecisionTreeClassifier	accuracy	entropy	0.753731343283582
6	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
6	DecisionTreeClassifier	accuracy	entropy	0.7611940298507462
7	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
7	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
7	DecisionTreeClassifier	accuracy	gini	0.664179104477612
7	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
7	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
7	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
7	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
7	DecisionTreeClassifier	accuracy	entropy	0.6119402985074627
8	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
8	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
8	DecisionTreeClassifier	accuracy	gini	0.706766917293233
8	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
8	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
8	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
8	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
8	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
9	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
9	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954

9	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
9	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
9	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
9	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
9	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
9	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
10	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
10	DecisionTreeClassifier	accuracy	entropy	0.5864661654135338
10	DecisionTreeClassifier	accuracy	gini	0.6015037593984962
10	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
10	DecisionTreeClassifier	accuracy	gini	0.5789473684210527
10	DecisionTreeClassifier	accuracy	entropy	0.5789473684210527
10	DecisionTreeClassifier	accuracy	gini	0.6015037593984962
10	DecisionTreeClassifier	accuracy	entropy	0.5939849624060151
11	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
11	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
11	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
11	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
11	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
11	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
11	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
11	DecisionTreeClassifier	accuracy	entropy	0.6194029850746269
12	DecisionTreeClassifier	accuracy	gini	0.7388059701492538
12	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
12	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
12	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
12	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
12	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
12	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
12	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
13	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
13	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
13	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
13	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
13	DecisionTreeClassifier	accuracy	gini	0.706766917293233
13	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
13	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
13	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
14	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
14	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
14	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
14	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
14	DecisionTreeClassifier	accuracy	gini	0.7368421052631579

14	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
14	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
14	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
15	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
15	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
15	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
15	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
15	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
15	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
15	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
15	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
16	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
16	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
16	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
16	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
16	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
16	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
16	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
16	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
17	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
17	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
17	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
17	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
17	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
17	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
17	DecisionTreeClassifier	accuracy	gini	0.5970149253731343
17	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
18	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
18	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
18	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
18	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
18	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
18	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
18	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
18	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
19	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
19	DecisionTreeClassifier	accuracy	entropy	0.7443609022556391
19	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
19	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
19	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
19	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
19	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
19	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579

20	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
20	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
20	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
20	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
20	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
20	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
20	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
20	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
21	DecisionTreeClassifier	accuracy	gini	0.7313432835820896
21	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
21	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
21	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
21	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
21	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
21	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
21	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
22	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
22	DecisionTreeClassifier	accuracy	entropy	0.6119402985074627
22	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
22	DecisionTreeClassifier	accuracy	entropy	0.6044776119402985
22	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
22	DecisionTreeClassifier	accuracy	entropy	0.6194029850746269
22	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
22	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
23	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
23	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
23	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
23	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
23	DecisionTreeClassifier	accuracy	gini	0.706766917293233
23	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
23	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
23	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
24	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
24	DecisionTreeClassifier	accuracy	entropy	0.6015037593984962
24	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
24	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
24	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
24	DecisionTreeClassifier	accuracy	entropy	0.6165413533834586
24	DecisionTreeClassifier	accuracy	gini	0.631578947368421
24	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
25	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
25	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
25	DecisionTreeClassifier	accuracy	gini	0.6390977443609023

25	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
25	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
25	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
25	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
25	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
1	DecisionTreeClassifier	f1	gini	0.806122448979592
1	DecisionTreeClassifier	f1	entropy	0.7724867724867724
1	DecisionTreeClassifier	f1	gini	0.781725888324873
1	DecisionTreeClassifier	f1	entropy	0.7684210526315789
1	DecisionTreeClassifier	f1	gini	0.7643979057591621
1	DecisionTreeClassifier	f1	entropy	0.7916666666666665
1	DecisionTreeClassifier	f1	gini	0.7916666666666665
1	DecisionTreeClassifier	f1	entropy	0.776595744680851
2	DecisionTreeClassifier	f1	gini	0.7807486631016043
2	DecisionTreeClassifier	f1	entropy	0.723404255319149
2	DecisionTreeClassifier	f1	gini	0.7659574468085105
2	DecisionTreeClassifier	f1	entropy	0.7027027027027027
2	DecisionTreeClassifier	f1	gini	0.7431693989071038
2	DecisionTreeClassifier	f1	entropy	0.6994535519125683
2	DecisionTreeClassifier	f1	gini	0.770053475935829
2	DecisionTreeClassifier	f1	entropy	0.7165775401069518
3	DecisionTreeClassifier	f1	gini	0.7777777777777778
3	DecisionTreeClassifier	f1	entropy	0.8066298342541436
3	DecisionTreeClassifier	f1	gini	0.7528089887640449
3	DecisionTreeClassifier	f1	entropy	0.7865168539325843
3	DecisionTreeClassifier	f1	gini	0.7734806629834253
3	DecisionTreeClassifier	f1	entropy	0.7826086956521738
3	DecisionTreeClassifier	f1	gini	0.7868852459016393
3	DecisionTreeClassifier	f1	entropy	0.782122905027933
4	DecisionTreeClassifier	f1	gini	0.7914438502673796
4	DecisionTreeClassifier	f1	entropy	0.7593582887700534
4	DecisionTreeClassifier	f1	gini	0.7540983606557377
4	DecisionTreeClassifier	f1	entropy	0.770053475935829
4	DecisionTreeClassifier	f1	gini	0.7956989247311826
4	DecisionTreeClassifier	f1	entropy	0.7789473684210526
4	DecisionTreeClassifier	f1	gini	0.7891891891891891
4	DecisionTreeClassifier	f1	entropy	0.7634408602150536
5	DecisionTreeClassifier	f1	gini	0.7936507936507936
5	DecisionTreeClassifier	f1	entropy	0.770053475935829
5	DecisionTreeClassifier	f1	gini	0.7734806629834253
5	DecisionTreeClassifier	f1	entropy	0.7717391304347825
5	DecisionTreeClassifier	f1	gini	0.7582417582417582
5	DecisionTreeClassifier	f1	entropy	0.7812499999999999

5	DecisionTreeClassifier	f1	gini	0.7807486631016043
5	DecisionTreeClassifier	f1	entropy	0.770053475935829
6	DecisionTreeClassifier	f1	gini	0.8144329896907218
6	DecisionTreeClassifier	f1	entropy	0.8229166666666666
6	DecisionTreeClassifier	f1	gini	0.7938144329896908
6	DecisionTreeClassifier	f1	entropy	0.8307692307692307
6	DecisionTreeClassifier	f1	gini	0.806122448979592
6	DecisionTreeClassifier	f1	entropy	0.83248730964467
6	DecisionTreeClassifier	f1	gini	0.8041237113402062
6	DecisionTreeClassifier	f1	entropy	0.8400000000000001
7	DecisionTreeClassifier	f1	gini	0.7684210526315789
7	DecisionTreeClassifier	f1	entropy	0.7282608695652174
7	DecisionTreeClassifier	f1	gini	0.761904761904762
7	DecisionTreeClassifier	f1	entropy	0.7252747252747254
7	DecisionTreeClassifier	f1	gini	0.7812500000000001
7	DecisionTreeClassifier	f1	entropy	0.7340425531914893
7	DecisionTreeClassifier	f1	gini	0.776595744680851
7	DecisionTreeClassifier	f1	entropy	0.7111111111111111
8	DecisionTreeClassifier	f1	gini	0.7909604519774012
8	DecisionTreeClassifier	f1	entropy	0.7457627118644068
8	DecisionTreeClassifier	f1	gini	0.777142857142857
8	DecisionTreeClassifier	f1	entropy	0.7283236994219653
8	DecisionTreeClassifier	f1	gini	0.7701149425287357
8	DecisionTreeClassifier	f1	entropy	0.735632183908046
8	DecisionTreeClassifier	f1	gini	0.7727272727272727
8	DecisionTreeClassifier	f1	entropy	0.7415730337078652
9	DecisionTreeClassifier	f1	gini	0.7362637362637361
9	DecisionTreeClassifier	f1	entropy	0.8
9	DecisionTreeClassifier	f1	gini	0.7553191489361704
9	DecisionTreeClassifier	f1	entropy	0.8167539267015708
9	DecisionTreeClassifier	f1	gini	0.7526881720430108
9	DecisionTreeClassifier	f1	entropy	0.8020833333333334
9	DecisionTreeClassifier	f1	gini	0.7634408602150536
9	DecisionTreeClassifier	f1	entropy	0.8042328042328043
10	DecisionTreeClassifier	f1	gini	0.7052023121387283
10	DecisionTreeClassifier	f1	entropy	0.6892655367231638
10	DecisionTreeClassifier	f1	gini	0.7039106145251396
10	DecisionTreeClassifier	f1	entropy	0.7142857142857143
10	DecisionTreeClassifier	f1	gini	0.6744186046511628
10	DecisionTreeClassifier	f1	entropy	0.6818181818181818
10	DecisionTreeClassifier	f1	gini	0.6971428571428571
10	DecisionTreeClassifier	f1	entropy	0.696629213483146
11	DecisionTreeClassifier	f1	gini	0.7717391304347826

11	DecisionTreeClassifier	f1	entropy	0.729281767955801
11	DecisionTreeClassifier	f1	gini	0.7608695652173912
11	DecisionTreeClassifier	f1	entropy	0.7159090909090909
11	DecisionTreeClassifier	f1	gini	0.770053475935829
11	DecisionTreeClassifier	f1	entropy	0.7191011235955055
11	DecisionTreeClassifier	f1	gini	0.7472527472527473
11	DecisionTreeClassifier	f1	entropy	0.7085714285714286
12	DecisionTreeClassifier	f1	gini	0.8167539267015708
12	DecisionTreeClassifier	f1	entropy	0.783068783068783
12	DecisionTreeClassifier	f1	gini	0.7853403141361256
12	DecisionTreeClassifier	f1	entropy	0.7936507936507936
12	DecisionTreeClassifier	f1	gini	0.8041237113402062
12	DecisionTreeClassifier	f1	entropy	0.7872340425531915
12	DecisionTreeClassifier	f1	gini	0.7807486631016043
12	DecisionTreeClassifier	f1	entropy	0.7849462365591399
13	DecisionTreeClassifier	f1	gini	0.7807486631016043
13	DecisionTreeClassifier	f1	entropy	0.7977528089887641
13	DecisionTreeClassifier	f1	gini	0.7608695652173912
13	DecisionTreeClassifier	f1	entropy	0.7752808988764045
13	DecisionTreeClassifier	f1	gini	0.7868852459016393
13	DecisionTreeClassifier	f1	entropy	0.7865168539325843
13	DecisionTreeClassifier	f1	gini	0.7872340425531914
13	DecisionTreeClassifier	f1	entropy	0.7777777777777778
14	DecisionTreeClassifier	f1	gini	0.8163265306122449
14	DecisionTreeClassifier	f1	entropy	0.7593582887700534
14	DecisionTreeClassifier	f1	gini	0.8105263157894737
14	DecisionTreeClassifier	f1	entropy	0.776595744680851
14	DecisionTreeClassifier	f1	gini	0.8148148148148148
14	DecisionTreeClassifier	f1	entropy	0.770053475935829
14	DecisionTreeClassifier	f1	gini	0.8125
14	DecisionTreeClassifier	f1	entropy	0.770053475935829
15	DecisionTreeClassifier	f1	gini	0.7692307692307693
15	DecisionTreeClassifier	f1	entropy	0.7500000000000001
15	DecisionTreeClassifier	f1	gini	0.7817258883248731
15	DecisionTreeClassifier	f1	entropy	0.7473684210526316
15	DecisionTreeClassifier	f1	gini	0.7668393782383419
15	DecisionTreeClassifier	f1	entropy	0.7473684210526316
15	DecisionTreeClassifier	f1	gini	0.7755102040816327
15	DecisionTreeClassifier	f1	entropy	0.7539267015706805
16	DecisionTreeClassifier	f1	gini	0.7650273224043715
16	DecisionTreeClassifier	f1	entropy	0.766839378238342
16	DecisionTreeClassifier	f1	gini	0.7472527472527473
16	DecisionTreeClassifier	f1	entropy	0.7653061224489796

16	DecisionTreeClassifier	f1	gini	0.7322404371584699
16	DecisionTreeClassifier	f1	entropy	0.7794871794871795
16	DecisionTreeClassifier	f1	gini	0.7608695652173912
16	DecisionTreeClassifier	f1	entropy	0.7628865979381443
17	DecisionTreeClassifier	f1	gini	0.7564766839378237
17	DecisionTreeClassifier	f1	entropy	0.7578947368421053
17	DecisionTreeClassifier	f1	gini	0.7407407407407407
17	DecisionTreeClassifier	f1	entropy	0.7407407407407407
17	DecisionTreeClassifier	f1	gini	0.7539267015706806
17	DecisionTreeClassifier	f1	entropy	0.7311827956989247
17	DecisionTreeClassifier	f1	gini	0.7096774193548387
17	DecisionTreeClassifier	f1	entropy	0.729281767955801
18	DecisionTreeClassifier	f1	gini	0.7459459459459459
18	DecisionTreeClassifier	f1	entropy	0.7634408602150536
18	DecisionTreeClassifier	f1	gini	0.7459459459459459
18	DecisionTreeClassifier	f1	entropy	0.7374301675977655
18	DecisionTreeClassifier	f1	gini	0.7222222222222223
18	DecisionTreeClassifier	f1	entropy	0.7374301675977655
18	DecisionTreeClassifier	f1	gini	0.7567567567567567
18	DecisionTreeClassifier	f1	entropy	0.7459459459459459
19	DecisionTreeClassifier	f1	gini	0.7853403141361257
19	DecisionTreeClassifier	f1	entropy	0.8172043010752688
19	DecisionTreeClassifier	f1	gini	0.7807486631016043
19	DecisionTreeClassifier	f1	entropy	0.7934782608695653
19	DecisionTreeClassifier	f1	gini	0.7675675675675675
19	DecisionTreeClassifier	f1	entropy	0.7868852459016393
19	DecisionTreeClassifier	f1	gini	0.7783783783783783
19	DecisionTreeClassifier	f1	entropy	0.8128342245989305
20	DecisionTreeClassifier	f1	gini	0.7303370786516853
20	DecisionTreeClassifier	f1	entropy	0.7379679144385027
20	DecisionTreeClassifier	f1	gini	0.7582417582417582
20	DecisionTreeClassifier	f1	entropy	0.7142857142857143
20	DecisionTreeClassifier	f1	gini	0.7444444444444445
20	DecisionTreeClassifier	f1	entropy	0.7459459459459459
20	DecisionTreeClassifier	f1	gini	0.7415730337078652
20	DecisionTreeClassifier	f1	entropy	0.7252747252747254
21	DecisionTreeClassifier	f1	gini	0.8064516129032258
21	DecisionTreeClassifier	f1	entropy	0.7978723404255319
21	DecisionTreeClassifier	f1	gini	0.8021390374331551
21	DecisionTreeClassifier	f1	entropy	0.7845303867403314
21	DecisionTreeClassifier	f1	gini	0.7826086956521738
21	DecisionTreeClassifier	f1	entropy	0.8042328042328043
21	DecisionTreeClassifier	f1	gini	0.7999999999999999

21	DecisionTreeClassifier	f1	entropy	0.8021390374331551
22	DecisionTreeClassifier	f1	gini	0.7485380116959065
22	DecisionTreeClassifier	f1	entropy	0.7142857142857143
22	DecisionTreeClassifier	f1	gini	0.7272727272727273
22	DecisionTreeClassifier	f1	entropy	0.7039106145251397
22	DecisionTreeClassifier	f1	gini	0.7325581395348837
22	DecisionTreeClassifier	f1	entropy	0.7182320441988951
22	DecisionTreeClassifier	f1	gini	0.7542857142857142
22	DecisionTreeClassifier	f1	entropy	0.729281767955801
23	DecisionTreeClassifier	f1	gini	0.7668393782383419
23	DecisionTreeClassifier	f1	entropy	0.7724867724867724
23	DecisionTreeClassifier	f1	gini	0.7894736842105262
23	DecisionTreeClassifier	f1	entropy	0.7724867724867724
23	DecisionTreeClassifier	f1	gini	0.7936507936507936
23	DecisionTreeClassifier	f1	entropy	0.7717391304347825
23	DecisionTreeClassifier	f1	gini	0.7807486631016043
23	DecisionTreeClassifier	f1	entropy	0.7830687830687831
24	DecisionTreeClassifier	f1	gini	0.7472527472527474
24	DecisionTreeClassifier	f1	entropy	0.7135135135135136
24	DecisionTreeClassifier	f1	gini	0.75
24	DecisionTreeClassifier	f1	entropy	0.7282608695652175
24	DecisionTreeClassifier	f1	gini	0.7391304347826086
24	DecisionTreeClassifier	f1	entropy	0.7272727272727273
24	DecisionTreeClassifier	f1	gini	0.7262569832402235
24	DecisionTreeClassifier	f1	entropy	0.7351351351351352
25	DecisionTreeClassifier	f1	gini	0.7362637362637361
25	DecisionTreeClassifier	f1	entropy	0.7675675675675675
25	DecisionTreeClassifier	f1	gini	0.7303370786516853
25	DecisionTreeClassifier	f1	entropy	0.7608695652173912
25	DecisionTreeClassifier	f1	gini	0.7459459459459459
25	DecisionTreeClassifier	f1	entropy	0.7553191489361704
25	DecisionTreeClassifier	f1	gini	0.7182320441988951
25	DecisionTreeClassifier	f1	entropy	0.776595744680851

Table 11: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.7388059701492538
1	RandomForestClassifier	accuracy	5	0.7313432835820896
1	RandomForestClassifier	accuracy	5	0.6940298507462687
1	RandomForestClassifier	accuracy	5	0.6940298507462687

1	RandomForestClassifier	accuracy	50	0.746268656716418
1	RandomForestClassifier	accuracy	50	0.746268656716418
1	RandomForestClassifier	accuracy	50	0.7388059701492538
1	RandomForestClassifier	accuracy	50	0.7835820895522388
2	RandomForestClassifier	accuracy	5	0.6390977443609023
2	RandomForestClassifier	accuracy	5	0.6240601503759399
2	RandomForestClassifier	accuracy	5	0.706766917293233
2	RandomForestClassifier	accuracy	5	0.7593984962406015
2	RandomForestClassifier	accuracy	50	0.7593984962406015
2	RandomForestClassifier	accuracy	50	0.7368421052631579
2	RandomForestClassifier	accuracy	50	0.7443609022556391
2	RandomForestClassifier	accuracy	50	0.6992481203007519
3	RandomForestClassifier	accuracy	5	0.7218045112781954
3	RandomForestClassifier	accuracy	5	0.7293233082706767
3	RandomForestClassifier	accuracy	5	0.706766917293233
3	RandomForestClassifier	accuracy	5	0.706766917293233
3	RandomForestClassifier	accuracy	50	0.7593984962406015
3	RandomForestClassifier	accuracy	50	0.7443609022556391
3	RandomForestClassifier	accuracy	50	0.7368421052631579
3	RandomForestClassifier	accuracy	50	0.7669172932330827
4	RandomForestClassifier	accuracy	5	0.6992481203007519
4	RandomForestClassifier	accuracy	5	0.6766917293233082
4	RandomForestClassifier	accuracy	5	0.7443609022556391
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22	RandomForestClassifier	f1	5	0.8020304568527918
22	RandomForestClassifier	f1	5	0.806282722513089
22	RandomForestClassifier	f1	50	0.8500000000000001
22	RandomForestClassifier	f1	50	0.8040201005025127
22	RandomForestClassifier	f1	50	0.8121827411167513
22	RandomForestClassifier	f1	50	0.836734693877551
23	RandomForestClassifier	f1	5	0.7731958762886598
23	RandomForestClassifier	f1	5	0.83
23	RandomForestClassifier	f1	5	0.8181818181818182
23	RandomForestClassifier	f1	5	0.7979274611398963
23	RandomForestClassifier	f1	50	0.8656716417910448
23	RandomForestClassifier	f1	50	0.8557213930348259
23	RandomForestClassifier	f1	50	0.8737864077669903
23	RandomForestClassifier	f1	50	0.8457711442786069
24	RandomForestClassifier	f1	5	0.7888888888888889
24	RandomForestClassifier	f1	5	0.8290155440414508
24	RandomForestClassifier	f1	5	0.8020833333333334
24	RandomForestClassifier	f1	5	0.7939698492462313
24	RandomForestClassifier	f1	50	0.83
24	RandomForestClassifier	f1	50	0.8481675392670157
24	RandomForestClassifier	f1	50	0.836734693877551

24	RandomForestClassifier	f1	50	0.8229166666666666
25	RandomForestClassifier	f1	5	0.8426395939086294
25	RandomForestClassifier	f1	5	0.8542713567839196
25	RandomForestClassifier	f1	5	0.8186528497409327
25	RandomForestClassifier	f1	5	0.8121827411167513
25	RandomForestClassifier	f1	50	0.8461538461538463
25	RandomForestClassifier	f1	50	0.801980198019802
25	RandomForestClassifier	f1	50	0.8446601941747574
25	RandomForestClassifier	f1	50	0.8415841584158414

Table 12: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.7164179104477612
1	SVC	accuracy	linear	0.7164179104477612
1	SVC	accuracy	rbf	0.7313432835820896
1	SVC	accuracy	rbf	0.7313432835820896
1	SVC	accuracy	linear	0.7164179104477612
1	SVC	accuracy	linear	0.7164179104477612
1	SVC	accuracy	rbf	0.7313432835820896
1	SVC	accuracy	rbf	0.7313432835820896
2	SVC	accuracy	linear	0.7218045112781954
2	SVC	accuracy	linear	0.7218045112781954
2	SVC	accuracy	rbf	0.7593984962406015
2	SVC	accuracy	rbf	0.7593984962406015
2	SVC	accuracy	linear	0.7218045112781954
2	SVC	accuracy	linear	0.7218045112781954
2	SVC	accuracy	rbf	0.7593984962406015
2	SVC	accuracy	rbf	0.7593984962406015
3	SVC	accuracy	linear	0.7368421052631579
3	SVC	accuracy	linear	0.7368421052631579
3	SVC	accuracy	rbf	0.7593984962406015
3	SVC	accuracy	rbf	0.7593984962406015
3	SVC	accuracy	linear	0.7368421052631579
3	SVC	accuracy	linear	0.7368421052631579
3	SVC	accuracy	rbf	0.7593984962406015
3	SVC	accuracy	rbf	0.7593984962406015
4	SVC	accuracy	linear	0.7443609022556391
4	SVC	accuracy	linear	0.7443609022556391
4	SVC	accuracy	rbf	0.7443609022556391
4	SVC	accuracy	rbf	0.7443609022556391

4	SVC	accuracy	linear	0.7443609022556391
4	SVC	accuracy	linear	0.7443609022556391
4	SVC	accuracy	rbf	0.7443609022556391
4	SVC	accuracy	rbf	0.7443609022556391
5	SVC	accuracy	linear	0.7669172932330827
5	SVC	accuracy	linear	0.7669172932330827
5	SVC	accuracy	rbf	0.8045112781954887
5	SVC	accuracy	rbf	0.8045112781954887
5	SVC	accuracy	linear	0.7669172932330827
5	SVC	accuracy	linear	0.7669172932330827
5	SVC	accuracy	rbf	0.8045112781954887
5	SVC	accuracy	rbf	0.8045112781954887
6	SVC	accuracy	linear	0.7761194029850746
6	SVC	accuracy	linear	0.7761194029850746
6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	linear	0.7761194029850746
6	SVC	accuracy	linear	0.7761194029850746
6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	rbf	0.7611940298507462
7	SVC	accuracy	linear	0.7518796992481203
7	SVC	accuracy	linear	0.7518796992481203
7	SVC	accuracy	rbf	0.7293233082706767
7	SVC	accuracy	rbf	0.7293233082706767
7	SVC	accuracy	linear	0.7518796992481203
7	SVC	accuracy	linear	0.7518796992481203
7	SVC	accuracy	rbf	0.7293233082706767
7	SVC	accuracy	rbf	0.7293233082706767
8	SVC	accuracy	linear	0.7293233082706767
8	SVC	accuracy	linear	0.7293233082706767
8	SVC	accuracy	rbf	0.7593984962406015
8	SVC	accuracy	rbf	0.7593984962406015
8	SVC	accuracy	linear	0.7293233082706767
8	SVC	accuracy	linear	0.7293233082706767
8	SVC	accuracy	rbf	0.7593984962406015
8	SVC	accuracy	rbf	0.7593984962406015
9	SVC	accuracy	linear	0.8045112781954887
9	SVC	accuracy	linear	0.8045112781954887
9	SVC	accuracy	rbf	0.7819548872180451
9	SVC	accuracy	rbf	0.7819548872180451
9	SVC	accuracy	linear	0.8045112781954887
9	SVC	accuracy	linear	0.8045112781954887
9	SVC	accuracy	rbf	0.7819548872180451

9	SVC	accuracy	rbf	0.7819548872180451
10	SVC	accuracy	linear	0.6992481203007519
10	SVC	accuracy	linear	0.6992481203007519
10	SVC	accuracy	rbf	0.7744360902255639
10	SVC	accuracy	rbf	0.7744360902255639
10	SVC	accuracy	linear	0.6992481203007519
10	SVC	accuracy	linear	0.6992481203007519
10	SVC	accuracy	rbf	0.7744360902255639
10	SVC	accuracy	rbf	0.7744360902255639
11	SVC	accuracy	linear	0.7611940298507462
11	SVC	accuracy	linear	0.7611940298507462
11	SVC	accuracy	rbf	0.8134328358208955
11	SVC	accuracy	rbf	0.8134328358208955
11	SVC	accuracy	linear	0.7611940298507462
11	SVC	accuracy	linear	0.7611940298507462
11	SVC	accuracy	rbf	0.8134328358208955
11	SVC	accuracy	rbf	0.8134328358208955
12	SVC	accuracy	linear	0.7894736842105263
12	SVC	accuracy	linear	0.7894736842105263
12	SVC	accuracy	rbf	0.7443609022556391
12	SVC	accuracy	rbf	0.7443609022556391
12	SVC	accuracy	linear	0.7894736842105263
12	SVC	accuracy	linear	0.7894736842105263
12	SVC	accuracy	rbf	0.7443609022556391
12	SVC	accuracy	rbf	0.7443609022556391
13	SVC	accuracy	linear	0.7443609022556391
13	SVC	accuracy	linear	0.7443609022556391
13	SVC	accuracy	rbf	0.7368421052631579
13	SVC	accuracy	rbf	0.7368421052631579
13	SVC	accuracy	linear	0.7443609022556391
13	SVC	accuracy	linear	0.7443609022556391
13	SVC	accuracy	rbf	0.7368421052631579
13	SVC	accuracy	rbf	0.7368421052631579
14	SVC	accuracy	linear	0.7443609022556391
14	SVC	accuracy	linear	0.7443609022556391
14	SVC	accuracy	rbf	0.7669172932330827
14	SVC	accuracy	rbf	0.7669172932330827
14	SVC	accuracy	linear	0.7443609022556391
14	SVC	accuracy	linear	0.7443609022556391
14	SVC	accuracy	rbf	0.7669172932330827
14	SVC	accuracy	rbf	0.7669172932330827
15	SVC	accuracy	linear	0.7593984962406015
15	SVC	accuracy	linear	0.7593984962406015

15	SVC	accuracy	rbf	0.7669172932330827
15	SVC	accuracy	rbf	0.7669172932330827
15	SVC	accuracy	linear	0.7593984962406015
15	SVC	accuracy	linear	0.7593984962406015
15	SVC	accuracy	rbf	0.7669172932330827
15	SVC	accuracy	rbf	0.7669172932330827
16	SVC	accuracy	linear	0.7611940298507462
16	SVC	accuracy	linear	0.7611940298507462
16	SVC	accuracy	rbf	0.7985074626865671
16	SVC	accuracy	rbf	0.7985074626865671
16	SVC	accuracy	linear	0.7611940298507462
16	SVC	accuracy	linear	0.7611940298507462
16	SVC	accuracy	rbf	0.7985074626865671
16	SVC	accuracy	rbf	0.7985074626865671
17	SVC	accuracy	linear	0.8045112781954887
17	SVC	accuracy	linear	0.8045112781954887
17	SVC	accuracy	rbf	0.8045112781954887
17	SVC	accuracy	rbf	0.8045112781954887
17	SVC	accuracy	linear	0.8045112781954887
17	SVC	accuracy	linear	0.8045112781954887
17	SVC	accuracy	rbf	0.8045112781954887
17	SVC	accuracy	rbf	0.8045112781954887
18	SVC	accuracy	linear	0.7518796992481203
18	SVC	accuracy	linear	0.7518796992481203
18	SVC	accuracy	rbf	0.7368421052631579
18	SVC	accuracy	rbf	0.7368421052631579
18	SVC	accuracy	linear	0.7518796992481203
18	SVC	accuracy	linear	0.7518796992481203
18	SVC	accuracy	rbf	0.7368421052631579
18	SVC	accuracy	rbf	0.7368421052631579
19	SVC	accuracy	linear	0.7518796992481203
19	SVC	accuracy	linear	0.7518796992481203
19	SVC	accuracy	rbf	0.7593984962406015
19	SVC	accuracy	rbf	0.7593984962406015
19	SVC	accuracy	linear	0.7518796992481203
19	SVC	accuracy	linear	0.7518796992481203
19	SVC	accuracy	rbf	0.7593984962406015
19	SVC	accuracy	rbf	0.7593984962406015
20	SVC	accuracy	linear	0.7518796992481203
20	SVC	accuracy	linear	0.7518796992481203
20	SVC	accuracy	rbf	0.7368421052631579
20	SVC	accuracy	rbf	0.7368421052631579
20	SVC	accuracy	linear	0.7518796992481203

20	SVC	accuracy	linear	0.7518796992481203
20	SVC	accuracy	rbf	0.7368421052631579
20	SVC	accuracy	rbf	0.7368421052631579
21	SVC	accuracy	linear	0.7835820895522388
21	SVC	accuracy	linear	0.7835820895522388
21	SVC	accuracy	rbf	0.7686567164179104
21	SVC	accuracy	rbf	0.7686567164179104
21	SVC	accuracy	linear	0.7835820895522388
21	SVC	accuracy	linear	0.7835820895522388
21	SVC	accuracy	rbf	0.7686567164179104
21	SVC	accuracy	rbf	0.7686567164179104
22	SVC	accuracy	linear	0.7443609022556391
22	SVC	accuracy	linear	0.7443609022556391
22	SVC	accuracy	rbf	0.7368421052631579
22	SVC	accuracy	rbf	0.7368421052631579
22	SVC	accuracy	linear	0.7443609022556391
22	SVC	accuracy	linear	0.7443609022556391
22	SVC	accuracy	rbf	0.7368421052631579
22	SVC	accuracy	rbf	0.7368421052631579
23	SVC	accuracy	linear	0.7744360902255639
23	SVC	accuracy	linear	0.7744360902255639
23	SVC	accuracy	rbf	0.7819548872180451
23	SVC	accuracy	rbf	0.7819548872180451
23	SVC	accuracy	linear	0.7744360902255639
23	SVC	accuracy	linear	0.7744360902255639
23	SVC	accuracy	rbf	0.7819548872180451
23	SVC	accuracy	rbf	0.7819548872180451
24	SVC	accuracy	linear	0.7443609022556391
24	SVC	accuracy	linear	0.7443609022556391
24	SVC	accuracy	rbf	0.7744360902255639
24	SVC	accuracy	rbf	0.7744360902255639
24	SVC	accuracy	linear	0.7443609022556391
24	SVC	accuracy	linear	0.7443609022556391
24	SVC	accuracy	rbf	0.7744360902255639
24	SVC	accuracy	rbf	0.7744360902255639
25	SVC	accuracy	linear	0.7669172932330827
25	SVC	accuracy	linear	0.7669172932330827
25	SVC	accuracy	rbf	0.7593984962406015
25	SVC	accuracy	rbf	0.7593984962406015
25	SVC	accuracy	linear	0.7669172932330827
25	SVC	accuracy	linear	0.7669172932330827
25	SVC	accuracy	rbf	0.7593984962406015
25	SVC	accuracy	rbf	0.7593984962406015

1	SVC	f1	linear	0.8020833333333333
1	SVC	f1	linear	0.8020833333333333
1	SVC	f1	rbf	0.8217821782178217
1	SVC	f1	rbf	0.8217821782178217
1	SVC	f1	linear	0.8020833333333333
1	SVC	f1	linear	0.8020833333333333
1	SVC	f1	rbf	0.8217821782178217
1	SVC	f1	rbf	0.8217821782178217
2	SVC	f1	linear	0.8021390374331551
2	SVC	f1	linear	0.8021390374331551
2	SVC	f1	rbf	0.8415841584158414
2	SVC	f1	rbf	0.8415841584158414
2	SVC	f1	linear	0.8021390374331551
2	SVC	f1	linear	0.8021390374331551
2	SVC	f1	rbf	0.8415841584158414
2	SVC	f1	rbf	0.8415841584158414
3	SVC	f1	linear	0.8167539267015708
3	SVC	f1	linear	0.8167539267015708
3	SVC	f1	rbf	0.8415841584158414
3	SVC	f1	rbf	0.8415841584158414
3	SVC	f1	linear	0.8167539267015708
3	SVC	f1	linear	0.8167539267015708
3	SVC	f1	rbf	0.8415841584158414
3	SVC	f1	rbf	0.8415841584158414
4	SVC	f1	linear	0.8316831683168318
4	SVC	f1	linear	0.8316831683168318
4	SVC	f1	rbf	0.8365384615384615
4	SVC	f1	rbf	0.8365384615384615
4	SVC	f1	linear	0.8316831683168318
4	SVC	f1	linear	0.8316831683168318
4	SVC	f1	rbf	0.8365384615384615
4	SVC	f1	rbf	0.8365384615384615
5	SVC	f1	linear	0.8324324324324325
5	SVC	f1	linear	0.8324324324324325
5	SVC	f1	rbf	0.8725490196078431
5	SVC	f1	rbf	0.8725490196078431
5	SVC	f1	linear	0.8324324324324325
5	SVC	f1	linear	0.8324324324324325
5	SVC	f1	rbf	0.8725490196078431
5	SVC	f1	rbf	0.8725490196078431
6	SVC	f1	linear	0.8453608247422681
6	SVC	f1	linear	0.8453608247422681
6	SVC	f1	rbf	0.8461538461538461

6	SVC	f1	rbf	0.8461538461538461
6	SVC	f1	linear	0.8453608247422681
6	SVC	f1	linear	0.8453608247422681
6	SVC	f1	rbf	0.8461538461538461
6	SVC	f1	rbf	0.8461538461538461
7	SVC	f1	linear	0.8290155440414508
7	SVC	f1	linear	0.8290155440414508
7	SVC	f1	rbf	0.8163265306122449
7	SVC	f1	rbf	0.8163265306122449
7	SVC	f1	linear	0.8290155440414508
7	SVC	f1	linear	0.8290155440414508
7	SVC	f1	rbf	0.8163265306122449
7	SVC	f1	rbf	0.8163265306122449
8	SVC	f1	linear	0.8064516129032258
8	SVC	f1	linear	0.8064516129032258
8	SVC	f1	rbf	0.84
8	SVC	f1	rbf	0.84
8	SVC	f1	linear	0.8064516129032258
8	SVC	f1	linear	0.8064516129032258
8	SVC	f1	rbf	0.84
8	SVC	f1	rbf	0.84
9	SVC	f1	linear	0.8631578947368421
9	SVC	f1	linear	0.8631578947368421
9	SVC	f1	rbf	0.8599033816425121
9	SVC	f1	rbf	0.8599033816425121
9	SVC	f1	linear	0.8631578947368421
9	SVC	f1	linear	0.8631578947368421
9	SVC	f1	rbf	0.8599033816425121
9	SVC	f1	rbf	0.8599033816425121
10	SVC	f1	linear	0.7872340425531914
10	SVC	f1	linear	0.7872340425531914
10	SVC	f1	rbf	0.8514851485148515
10	SVC	f1	rbf	0.8514851485148515
10	SVC	f1	linear	0.7872340425531914
10	SVC	f1	linear	0.7872340425531914
10	SVC	f1	rbf	0.8514851485148515
10	SVC	f1	rbf	0.8514851485148515
11	SVC	f1	linear	0.8367346938775511
11	SVC	f1	linear	0.8367346938775511
11	SVC	f1	rbf	0.878048780487805
11	SVC	f1	rbf	0.878048780487805
11	SVC	f1	linear	0.8367346938775511
11	SVC	f1	linear	0.8367346938775511

11	SVC	f1	rbf	0.878048780487805
11	SVC	f1	rbf	0.878048780487805
12	SVC	f1	linear	0.8571428571428571
12	SVC	f1	linear	0.8571428571428571
12	SVC	f1	rbf	0.8316831683168318
12	SVC	f1	rbf	0.8316831683168318
12	SVC	f1	linear	0.8571428571428571
12	SVC	f1	linear	0.8571428571428571
12	SVC	f1	rbf	0.8316831683168318
12	SVC	f1	rbf	0.8316831683168318
13	SVC	f1	linear	0.8229166666666666
13	SVC	f1	linear	0.8229166666666666
13	SVC	f1	rbf	0.8275862068965516
13	SVC	f1	rbf	0.8275862068965516
13	SVC	f1	linear	0.8229166666666666
13	SVC	f1	linear	0.8229166666666666
13	SVC	f1	rbf	0.8275862068965516
13	SVC	f1	rbf	0.8275862068965516
14	SVC	f1	linear	0.8229166666666666
14	SVC	f1	linear	0.8229166666666666
14	SVC	f1	rbf	0.8472906403940887
14	SVC	f1	rbf	0.8472906403940887
14	SVC	f1	linear	0.8229166666666666
14	SVC	f1	linear	0.8229166666666666
14	SVC	f1	rbf	0.8472906403940887
14	SVC	f1	rbf	0.8472906403940887
15	SVC	f1	linear	0.8350515463917527
15	SVC	f1	linear	0.8350515463917527
15	SVC	f1	rbf	0.8442211055276382
15	SVC	f1	rbf	0.8442211055276382
15	SVC	f1	linear	0.8350515463917527
15	SVC	f1	linear	0.8350515463917527
15	SVC	f1	rbf	0.8442211055276382
15	SVC	f1	rbf	0.8442211055276382
16	SVC	f1	linear	0.8297872340425532
16	SVC	f1	linear	0.8297872340425532
16	SVC	f1	rbf	0.8656716417910447
16	SVC	f1	rbf	0.8656716417910447
16	SVC	f1	linear	0.8297872340425532
16	SVC	f1	linear	0.8297872340425532
16	SVC	f1	rbf	0.8656716417910447
16	SVC	f1	rbf	0.8656716417910447
17	SVC	f1	linear	0.8686868686868686

17	SVC	f1	linear	0.8686868686868686
17	SVC	f1	rbf	0.8712871287128714
17	SVC	f1	rbf	0.8712871287128714
17	SVC	f1	linear	0.8686868686868686
17	SVC	f1	linear	0.8686868686868686
17	SVC	f1	rbf	0.8712871287128714
17	SVC	f1	rbf	0.8712871287128714
18	SVC	f1	linear	0.8307692307692308
18	SVC	f1	linear	0.8307692307692308
18	SVC	f1	rbf	0.8309178743961353
18	SVC	f1	rbf	0.8309178743961353
18	SVC	f1	linear	0.8307692307692308
18	SVC	f1	linear	0.8307692307692308
18	SVC	f1	rbf	0.8309178743961353
18	SVC	f1	rbf	0.8309178743961353
19	SVC	f1	linear	0.8253968253968254
19	SVC	f1	linear	0.8253968253968254
19	SVC	f1	rbf	0.8415841584158414
19	SVC	f1	rbf	0.8415841584158414
19	SVC	f1	linear	0.8253968253968254
19	SVC	f1	linear	0.8253968253968254
19	SVC	f1	rbf	0.8415841584158414
19	SVC	f1	rbf	0.8415841584158414
20	SVC	f1	linear	0.835820895522388
20	SVC	f1	linear	0.835820895522388
20	SVC	f1	rbf	0.8292682926829268
20	SVC	f1	rbf	0.8292682926829268
20	SVC	f1	linear	0.835820895522388
20	SVC	f1	linear	0.835820895522388
20	SVC	f1	rbf	0.8292682926829268
20	SVC	f1	rbf	0.8292682926829268
21	SVC	f1	linear	0.8512820512820514
21	SVC	f1	linear	0.8512820512820514
21	SVC	f1	rbf	0.8530805687203793
21	SVC	f1	rbf	0.8530805687203793
21	SVC	f1	linear	0.8512820512820514
21	SVC	f1	linear	0.8512820512820514
21	SVC	f1	rbf	0.8530805687203793
21	SVC	f1	rbf	0.8530805687203793
22	SVC	f1	linear	0.8229166666666666
22	SVC	f1	linear	0.8229166666666666
22	SVC	f1	rbf	0.8241206030150753
22	SVC	f1	rbf	0.8241206030150753

22	SVC	f1	linear	0.8229166666666666
22	SVC	f1	linear	0.8229166666666666
22	SVC	f1	rbf	0.8241206030150753
22	SVC	f1	rbf	0.8241206030150753
23	SVC	f1	linear	0.845360824742268
23	SVC	f1	linear	0.845360824742268
23	SVC	f1	rbf	0.8571428571428572
23	SVC	f1	rbf	0.8571428571428572
23	SVC	f1	linear	0.845360824742268
23	SVC	f1	linear	0.845360824742268
23	SVC	f1	rbf	0.8571428571428572
23	SVC	f1	rbf	0.8571428571428572
24	SVC	f1	linear	0.8229166666666666
24	SVC	f1	linear	0.8229166666666666
24	SVC	f1	rbf	0.8500000000000001
24	SVC	f1	rbf	0.8500000000000001
24	SVC	f1	linear	0.8229166666666666
24	SVC	f1	linear	0.8229166666666666
24	SVC	f1	rbf	0.8500000000000001
24	SVC	f1	rbf	0.8500000000000001
25	SVC	f1	linear	0.8426395939086294
25	SVC	f1	linear	0.8426395939086294
25	SVC	f1	rbf	0.8431372549019608
25	SVC	f1	rbf	0.8431372549019608
25	SVC	f1	linear	0.8426395939086294
25	SVC	f1	linear	0.8426395939086294
25	SVC	f1	rbf	0.8431372549019608
25	SVC	f1	rbf	0.8431372549019608

Table 13: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.6194029850746269
1	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
1	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
1	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
1	DecisionTreeClassifier	accuracy	gini	0.6119402985074627
1	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
1	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
1	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
2	DecisionTreeClassifier	accuracy	gini	0.7142857142857143

2	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
2	DecisionTreeClassifier	accuracy	gini	0.706766917293233
2	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
2	DecisionTreeClassifier	accuracy	gini	0.706766917293233
2	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
2	DecisionTreeClassifier	accuracy	gini	0.706766917293233
2	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
3	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
3	DecisionTreeClassifier	accuracy	entropy	0.7443609022556391
3	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
3	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
3	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
3	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
3	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
3	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
4	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
4	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
4	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
4	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
4	DecisionTreeClassifier	accuracy	gini	0.6090225563909775
4	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
4	DecisionTreeClassifier	accuracy	gini	0.5864661654135338
4	DecisionTreeClassifier	accuracy	entropy	0.6015037593984962
5	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
5	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
5	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
5	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
5	DecisionTreeClassifier	accuracy	gini	0.706766917293233
5	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
5	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
5	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
6	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
6	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
6	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
6	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
6	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
6	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
6	DecisionTreeClassifier	accuracy	gini	0.7388059701492538
6	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
7	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
7	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
7	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
7	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082

7	DecisionTreeClassifier	accuracy	gini	0.5864661654135338
7	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
7	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
7	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
8	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
8	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
8	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
8	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
8	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
8	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
8	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
8	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
9	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
9	DecisionTreeClassifier	accuracy	entropy	0.7894736842105263
9	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
9	DecisionTreeClassifier	accuracy	entropy	0.7518796992481203
9	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
9	DecisionTreeClassifier	accuracy	entropy	0.7819548872180451
9	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
9	DecisionTreeClassifier	accuracy	entropy	0.7894736842105263
10	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
10	DecisionTreeClassifier	accuracy	entropy	0.6015037593984962
10	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
10	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
10	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
10	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
10	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
10	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
11	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
11	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
11	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
11	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
11	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
11	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
11	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
11	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
12	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
12	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
12	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
12	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
12	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
12	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
12	DecisionTreeClassifier	accuracy	gini	0.6466165413533834

12	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
13	DecisionTreeClassifier	accuracy	gini	0.706766917293233
13	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
13	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
13	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
13	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
13	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
13	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
13	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
14	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
14	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
14	DecisionTreeClassifier	accuracy	gini	0.706766917293233
14	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
14	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
14	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
14	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
14	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
15	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
15	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
15	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
15	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
15	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
15	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
15	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
15	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
16	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
16	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
16	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
16	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
16	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
16	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
16	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
16	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
17	DecisionTreeClassifier	accuracy	gini	0.706766917293233
17	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
17	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
17	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
17	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
17	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
17	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
17	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
18	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
18	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519

18	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
18	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
18	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
18	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
18	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
18	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
19	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
19	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
19	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
19	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
19	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
19	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
19	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
19	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
20	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
20	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
20	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
20	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
20	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
20	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
20	DecisionTreeClassifier	accuracy	gini	0.631578947368421
20	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
21	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
21	DecisionTreeClassifier	accuracy	entropy	0.7611940298507462
21	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
21	DecisionTreeClassifier	accuracy	entropy	0.746268656716418
21	DecisionTreeClassifier	accuracy	gini	0.7388059701492538
21	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
21	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
21	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
22	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
22	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
22	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
22	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
22	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
22	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
22	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
22	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
23	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
23	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
23	DecisionTreeClassifier	accuracy	gini	0.706766917293233
23	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
23	DecisionTreeClassifier	accuracy	gini	0.6917293233082706

23	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
23	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
23	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
24	DecisionTreeClassifier	accuracy	gini	0.6015037593984962
24	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
24	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
24	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
24	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
24	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
24	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
24	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
25	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
25	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
25	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
25	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
25	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
25	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
25	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
25	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
1	DecisionTreeClassifier	f1	gini	0.7243243243243244
1	DecisionTreeClassifier	f1	entropy	0.7849462365591399
1	DecisionTreeClassifier	f1	gini	0.7659574468085105
1	DecisionTreeClassifier	f1	entropy	0.776595744680851
1	DecisionTreeClassifier	f1	gini	0.7142857142857143
1	DecisionTreeClassifier	f1	entropy	0.7684210526315789
1	DecisionTreeClassifier	f1	gini	0.7807486631016043
1	DecisionTreeClassifier	f1	entropy	0.776595744680851
2	DecisionTreeClassifier	f1	gini	0.7934782608695653
2	DecisionTreeClassifier	f1	entropy	0.7830687830687831
2	DecisionTreeClassifier	f1	gini	0.7868852459016393
2	DecisionTreeClassifier	f1	entropy	0.7872340425531914
2	DecisionTreeClassifier	f1	gini	0.7868852459016393
2	DecisionTreeClassifier	f1	entropy	0.8064516129032258
2	DecisionTreeClassifier	f1	gini	0.7891891891891891
2	DecisionTreeClassifier	f1	entropy	0.7807486631016043
3	DecisionTreeClassifier	f1	gini	0.7362637362637361
3	DecisionTreeClassifier	f1	entropy	0.8210526315789475
3	DecisionTreeClassifier	f1	gini	0.7528089887640449
3	DecisionTreeClassifier	f1	entropy	0.8186528497409327
3	DecisionTreeClassifier	f1	gini	0.7222222222222223
3	DecisionTreeClassifier	f1	entropy	0.8042328042328043
3	DecisionTreeClassifier	f1	gini	0.7344632768361582
3	DecisionTreeClassifier	f1	entropy	0.7830687830687831

4	DecisionTreeClassifier	f1	gini	0.7340425531914895
4	DecisionTreeClassifier	f1	entropy	0.7222222222222223
4	DecisionTreeClassifier	f1	gini	0.7525773195876289
4	DecisionTreeClassifier	f1	entropy	0.7322404371584699
4	DecisionTreeClassifier	f1	gini	0.7234042553191489
4	DecisionTreeClassifier	f1	entropy	0.7045454545454546
4	DecisionTreeClassifier	f1	gini	0.7058823529411765
4	DecisionTreeClassifier	f1	entropy	0.6971428571428571
5	DecisionTreeClassifier	f1	gini	0.8
5	DecisionTreeClassifier	f1	entropy	0.7849462365591398
5	DecisionTreeClassifier	f1	gini	0.7912087912087912
5	DecisionTreeClassifier	f1	entropy	0.7978142076502732
5	DecisionTreeClassifier	f1	gini	0.7868852459016393
5	DecisionTreeClassifier	f1	entropy	0.7956989247311826
5	DecisionTreeClassifier	f1	gini	0.7912087912087912
5	DecisionTreeClassifier	f1	entropy	0.7849462365591398
6	DecisionTreeClassifier	f1	gini	0.770053475935829
6	DecisionTreeClassifier	f1	entropy	0.7894736842105263
6	DecisionTreeClassifier	f1	gini	0.7741935483870968
6	DecisionTreeClassifier	f1	entropy	0.7650273224043715
6	DecisionTreeClassifier	f1	gini	0.7741935483870968
6	DecisionTreeClassifier	f1	entropy	0.7634408602150538
6	DecisionTreeClassifier	f1	gini	0.8167539267015708
6	DecisionTreeClassifier	f1	entropy	0.7431693989071038
7	DecisionTreeClassifier	f1	gini	0.7513812154696133
7	DecisionTreeClassifier	f1	entropy	0.7272727272727274
7	DecisionTreeClassifier	f1	gini	0.7555555555555556
7	DecisionTreeClassifier	f1	entropy	0.7542857142857143
7	DecisionTreeClassifier	f1	gini	0.6820809248554913
7	DecisionTreeClassifier	f1	entropy	0.7542857142857143
7	DecisionTreeClassifier	f1	gini	0.7528089887640449
7	DecisionTreeClassifier	f1	entropy	0.7528089887640449
8	DecisionTreeClassifier	f1	gini	0.7624309392265195
8	DecisionTreeClassifier	f1	entropy	0.7741935483870968
8	DecisionTreeClassifier	f1	gini	0.7513812154696133
8	DecisionTreeClassifier	f1	entropy	0.7486631016042781
8	DecisionTreeClassifier	f1	gini	0.7374301675977655
8	DecisionTreeClassifier	f1	entropy	0.7619047619047619
8	DecisionTreeClassifier	f1	gini	0.7709497206703911
8	DecisionTreeClassifier	f1	entropy	0.7526881720430108
9	DecisionTreeClassifier	f1	gini	0.8066298342541436
9	DecisionTreeClassifier	f1	entropy	0.8541666666666666
9	DecisionTreeClassifier	f1	gini	0.7977528089887641

9	DecisionTreeClassifier	f1	entropy	0.823529411764706
9	DecisionTreeClassifier	f1	gini	0.8064516129032258
9	DecisionTreeClassifier	f1	entropy	0.8465608465608465
9	DecisionTreeClassifier	f1	gini	0.7734806629834253
9	DecisionTreeClassifier	f1	entropy	0.8526315789473684
10	DecisionTreeClassifier	f1	gini	0.770053475935829
10	DecisionTreeClassifier	f1	entropy	0.7135135135135136
10	DecisionTreeClassifier	f1	gini	0.7724867724867724
10	DecisionTreeClassifier	f1	entropy	0.7173913043478262
10	DecisionTreeClassifier	f1	gini	0.75
10	DecisionTreeClassifier	f1	entropy	0.7351351351351352
10	DecisionTreeClassifier	f1	gini	0.7853403141361257
10	DecisionTreeClassifier	f1	entropy	0.7434554973821991
11	DecisionTreeClassifier	f1	gini	0.7845303867403314
11	DecisionTreeClassifier	f1	entropy	0.7513812154696133
11	DecisionTreeClassifier	f1	gini	0.7888888888888889
11	DecisionTreeClassifier	f1	entropy	0.7709497206703911
11	DecisionTreeClassifier	f1	gini	0.7666666666666667
11	DecisionTreeClassifier	f1	entropy	0.7528089887640449
11	DecisionTreeClassifier	f1	gini	0.7709497206703911
11	DecisionTreeClassifier	f1	entropy	0.7582417582417583
12	DecisionTreeClassifier	f1	gini	0.7513812154696133
12	DecisionTreeClassifier	f1	entropy	0.7241379310344828
12	DecisionTreeClassifier	f1	gini	0.7419354838709677
12	DecisionTreeClassifier	f1	entropy	0.7199999999999999
12	DecisionTreeClassifier	f1	gini	0.7472527472527474
12	DecisionTreeClassifier	f1	entropy	0.7472527472527474
12	DecisionTreeClassifier	f1	gini	0.7459459459459459
12	DecisionTreeClassifier	f1	entropy	0.7159090909090909
13	DecisionTreeClassifier	f1	gini	0.7891891891891891
13	DecisionTreeClassifier	f1	entropy	0.7578947368421053
13	DecisionTreeClassifier	f1	gini	0.7934782608695653
13	DecisionTreeClassifier	f1	entropy	0.7853403141361257
13	DecisionTreeClassifier	f1	gini	0.8020833333333334
13	DecisionTreeClassifier	f1	entropy	0.7918781725888324
13	DecisionTreeClassifier	f1	gini	0.7978723404255319
13	DecisionTreeClassifier	f1	entropy	0.7643979057591623
14	DecisionTreeClassifier	f1	gini	0.768421052631579
14	DecisionTreeClassifier	f1	entropy	0.77720207253886
14	DecisionTreeClassifier	f1	gini	0.7958115183246073
14	DecisionTreeClassifier	f1	entropy	0.7857142857142857
14	DecisionTreeClassifier	f1	gini	0.77720207253886
14	DecisionTreeClassifier	f1	entropy	0.7812499999999999

14	DecisionTreeClassifier	f1	gini	0.7789473684210526
14	DecisionTreeClassifier	f1	entropy	0.7875647668393783
15	DecisionTreeClassifier	f1	gini	0.7692307692307693
15	DecisionTreeClassifier	f1	entropy	0.7526881720430108
15	DecisionTreeClassifier	f1	gini	0.7555555555555556
15	DecisionTreeClassifier	f1	entropy	0.7526881720430108
15	DecisionTreeClassifier	f1	gini	0.7734806629834253
15	DecisionTreeClassifier	f1	entropy	0.768421052631579
15	DecisionTreeClassifier	f1	gini	0.7802197802197802
15	DecisionTreeClassifier	f1	entropy	0.7807486631016043
16	DecisionTreeClassifier	f1	gini	0.7666666666666667
16	DecisionTreeClassifier	f1	entropy	0.806282722513089
16	DecisionTreeClassifier	f1	gini	0.7734806629834253
16	DecisionTreeClassifier	f1	entropy	0.7936507936507936
16	DecisionTreeClassifier	f1	gini	0.7666666666666667
16	DecisionTreeClassifier	f1	entropy	0.7812500000000001
16	DecisionTreeClassifier	f1	gini	0.7624309392265194
16	DecisionTreeClassifier	f1	entropy	0.8020833333333333
17	DecisionTreeClassifier	f1	gini	0.7999999999999999
17	DecisionTreeClassifier	f1	entropy	0.7853403141361257
17	DecisionTreeClassifier	f1	gini	0.7755102040816327
17	DecisionTreeClassifier	f1	entropy	0.7608695652173912
17	DecisionTreeClassifier	f1	gini	0.77720207253886
17	DecisionTreeClassifier	f1	entropy	0.7582417582417582
17	DecisionTreeClassifier	f1	gini	0.787878787878788
17	DecisionTreeClassifier	f1	entropy	0.7783783783783783
18	DecisionTreeClassifier	f1	gini	0.7650273224043715
18	DecisionTreeClassifier	f1	entropy	0.7894736842105262
18	DecisionTreeClassifier	f1	gini	0.7894736842105262
18	DecisionTreeClassifier	f1	entropy	0.8148148148148148
18	DecisionTreeClassifier	f1	gini	0.7668393782383419
18	DecisionTreeClassifier	f1	entropy	0.8021390374331551
18	DecisionTreeClassifier	f1	gini	0.7789473684210526
18	DecisionTreeClassifier	f1	entropy	0.8105263157894737
19	DecisionTreeClassifier	f1	gini	0.7471264367816093
19	DecisionTreeClassifier	f1	entropy	0.8
19	DecisionTreeClassifier	f1	gini	0.7457627118644068
19	DecisionTreeClassifier	f1	entropy	0.7936507936507936
19	DecisionTreeClassifier	f1	gini	0.7597765363128492
19	DecisionTreeClassifier	f1	entropy	0.7830687830687831
19	DecisionTreeClassifier	f1	gini	0.7514450867052023
19	DecisionTreeClassifier	f1	entropy	0.7872340425531914
20	DecisionTreeClassifier	f1	gini	0.7486033519553073

20	DecisionTreeClassifier	f1	entropy	0.7717391304347825
20	DecisionTreeClassifier	f1	gini	0.7222222222222223
20	DecisionTreeClassifier	f1	entropy	0.7650273224043715
20	DecisionTreeClassifier	f1	gini	0.7362637362637361
20	DecisionTreeClassifier	f1	entropy	0.7675675675675675
20	DecisionTreeClassifier	f1	gini	0.7262569832402235
20	DecisionTreeClassifier	f1	entropy	0.7624309392265195
21	DecisionTreeClassifier	f1	gini	0.782122905027933
21	DecisionTreeClassifier	f1	entropy	0.8279569892473119
21	DecisionTreeClassifier	f1	gini	0.7999999999999999
21	DecisionTreeClassifier	f1	entropy	0.8172043010752688
21	DecisionTreeClassifier	f1	gini	0.8128342245989305
21	DecisionTreeClassifier	f1	entropy	0.7978142076502731
21	DecisionTreeClassifier	f1	gini	0.7826086956521738
21	DecisionTreeClassifier	f1	entropy	0.7845303867403314
22	DecisionTreeClassifier	f1	gini	0.7593582887700534
22	DecisionTreeClassifier	f1	entropy	0.7894736842105262
22	DecisionTreeClassifier	f1	gini	0.7659574468085107
22	DecisionTreeClassifier	f1	entropy	0.7830687830687831
22	DecisionTreeClassifier	f1	gini	0.7593582887700534
22	DecisionTreeClassifier	f1	entropy	0.7830687830687831
22	DecisionTreeClassifier	f1	gini	0.7650273224043715
22	DecisionTreeClassifier	f1	entropy	0.7872340425531914
23	DecisionTreeClassifier	f1	gini	0.7956989247311826
23	DecisionTreeClassifier	f1	entropy	0.782122905027933
23	DecisionTreeClassifier	f1	gini	0.7868852459016393
23	DecisionTreeClassifier	f1	entropy	0.7912087912087912
23	DecisionTreeClassifier	f1	gini	0.7759562841530053
23	DecisionTreeClassifier	f1	entropy	0.7734806629834253
23	DecisionTreeClassifier	f1	gini	0.7528089887640449
23	DecisionTreeClassifier	f1	entropy	0.7955801104972376
24	DecisionTreeClassifier	f1	gini	0.7005649717514125
24	DecisionTreeClassifier	f1	entropy	0.7167630057803468
24	DecisionTreeClassifier	f1	gini	0.7526881720430108
24	DecisionTreeClassifier	f1	entropy	0.7134502923976609
24	DecisionTreeClassifier	f1	gini	0.7540983606557377
24	DecisionTreeClassifier	f1	entropy	0.7428571428571429
24	DecisionTreeClassifier	f1	gini	0.7650273224043715
24	DecisionTreeClassifier	f1	entropy	0.7303370786516853
25	DecisionTreeClassifier	f1	gini	0.7362637362637361
25	DecisionTreeClassifier	f1	entropy	0.7653061224489796
25	DecisionTreeClassifier	f1	gini	0.7608695652173912
25	DecisionTreeClassifier	f1	entropy	0.7628865979381444

25	DecisionTreeClassifier	f1	gini	0.7748691099476439
25	DecisionTreeClassifier	f1	entropy	0.7676767676767677
25	DecisionTreeClassifier	f1	gini	0.770053475935829
25	DecisionTreeClassifier	f1	entropy	0.7715736040609137

Table 14: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.6940298507462687
1	RandomForestClassifier	accuracy	5	0.6865671641791045
1	RandomForestClassifier	accuracy	5	0.6716417910447762
1	RandomForestClassifier	accuracy	5	0.753731343283582
1	RandomForestClassifier	accuracy	50	0.7611940298507462
1	RandomForestClassifier	accuracy	50	0.7835820895522388
1	RandomForestClassifier	accuracy	50	0.7761194029850746
1	RandomForestClassifier	accuracy	50	0.7686567164179104
2	RandomForestClassifier	accuracy	5	0.6865671641791045
2	RandomForestClassifier	accuracy	5	0.7313432835820896
2	RandomForestClassifier	accuracy	5	0.7014925373134329
2	RandomForestClassifier	accuracy	5	0.7313432835820896
2	RandomForestClassifier	accuracy	50	0.7611940298507462
2	RandomForestClassifier	accuracy	50	0.7761194029850746
2	RandomForestClassifier	accuracy	50	0.7686567164179104
2	RandomForestClassifier	accuracy	50	0.746268656716418
3	RandomForestClassifier	accuracy	5	0.6842105263157895
3	RandomForestClassifier	accuracy	5	0.706766917293233
3	RandomForestClassifier	accuracy	5	0.7293233082706767
3	RandomForestClassifier	accuracy	5	0.6917293233082706
3	RandomForestClassifier	accuracy	50	0.7819548872180451
3	RandomForestClassifier	accuracy	50	0.7593984962406015
3	RandomForestClassifier	accuracy	50	0.7518796992481203
3	RandomForestClassifier	accuracy	50	0.7443609022556391
4	RandomForestClassifier	accuracy	5	0.6541353383458647
4	RandomForestClassifier	accuracy	5	0.6766917293233082
4	RandomForestClassifier	accuracy	5	0.7293233082706767
4	RandomForestClassifier	accuracy	5	0.6541353383458647
4	RandomForestClassifier	accuracy	50	0.706766917293233
4	RandomForestClassifier	accuracy	50	0.6917293233082706
4	RandomForestClassifier	accuracy	50	0.6992481203007519
4	RandomForestClassifier	accuracy	50	0.7293233082706767
5	RandomForestClassifier	accuracy	5	0.7218045112781954

5	RandomForestClassifier	accuracy	5	0.706766917293233
5	RandomForestClassifier	accuracy	5	0.6240601503759399
5	RandomForestClassifier	accuracy	5	0.6842105263157895
5	RandomForestClassifier	accuracy	50	0.7518796992481203
5	RandomForestClassifier	accuracy	50	0.7293233082706767
5	RandomForestClassifier	accuracy	50	0.7518796992481203
5	RandomForestClassifier	accuracy	50	0.7744360902255639
6	RandomForestClassifier	accuracy	5	0.6343283582089553
6	RandomForestClassifier	accuracy	5	0.664179104477612
6	RandomForestClassifier	accuracy	5	0.7089552238805971
6	RandomForestClassifier	accuracy	5	0.6716417910447762
6	RandomForestClassifier	accuracy	50	0.7761194029850746
6	RandomForestClassifier	accuracy	50	0.753731343283582
6	RandomForestClassifier	accuracy	50	0.7388059701492538
6	RandomForestClassifier	accuracy	50	0.7238805970149254
7	RandomForestClassifier	accuracy	5	0.6940298507462687
7	RandomForestClassifier	accuracy	5	0.6268656716417911
7	RandomForestClassifier	accuracy	5	0.6865671641791045
7	RandomForestClassifier	accuracy	5	0.7089552238805971
7	RandomForestClassifier	accuracy	50	0.753731343283582
7	RandomForestClassifier	accuracy	50	0.7910447761194029
7	RandomForestClassifier	accuracy	50	0.753731343283582
7	RandomForestClassifier	accuracy	50	0.7686567164179104
8	RandomForestClassifier	accuracy	5	0.6917293233082706
8	RandomForestClassifier	accuracy	5	0.6917293233082706
8	RandomForestClassifier	accuracy	5	0.6917293233082706
8	RandomForestClassifier	accuracy	5	0.6541353383458647
8	RandomForestClassifier	accuracy	50	0.7218045112781954
8	RandomForestClassifier	accuracy	50	0.7368421052631579
8	RandomForestClassifier	accuracy	50	0.7368421052631579
8	RandomForestClassifier	accuracy	50	0.7669172932330827
9	RandomForestClassifier	accuracy	5	0.6541353383458647
9	RandomForestClassifier	accuracy	5	0.6691729323308271
9	RandomForestClassifier	accuracy	5	0.6917293233082706
9	RandomForestClassifier	accuracy	5	0.6842105263157895
9	RandomForestClassifier	accuracy	50	0.7368421052631579
9	RandomForestClassifier	accuracy	50	0.7368421052631579
9	RandomForestClassifier	accuracy	50	0.7518796992481203
9	RandomForestClassifier	accuracy	50	0.7293233082706767
10	RandomForestClassifier	accuracy	5	0.7443609022556391
10	RandomForestClassifier	accuracy	5	0.706766917293233
10	RandomForestClassifier	accuracy	5	0.7593984962406015
10	RandomForestClassifier	accuracy	5	0.7443609022556391

10	RandomForestClassifier	accuracy	50	0.7744360902255639
10	RandomForestClassifier	accuracy	50	0.7894736842105263
10	RandomForestClassifier	accuracy	50	0.7969924812030075
10	RandomForestClassifier	accuracy	50	0.8045112781954887
11	RandomForestClassifier	accuracy	5	0.7164179104477612
11	RandomForestClassifier	accuracy	5	0.746268656716418
11	RandomForestClassifier	accuracy	5	0.7313432835820896
11	RandomForestClassifier	accuracy	5	0.7164179104477612
11	RandomForestClassifier	accuracy	50	0.7835820895522388
11	RandomForestClassifier	accuracy	50	0.7238805970149254
11	RandomForestClassifier	accuracy	50	0.7835820895522388
11	RandomForestClassifier	accuracy	50	0.7238805970149254
12	RandomForestClassifier	accuracy	5	0.6716417910447762
12	RandomForestClassifier	accuracy	5	0.7164179104477612
12	RandomForestClassifier	accuracy	5	0.6865671641791045
12	RandomForestClassifier	accuracy	5	0.6268656716417911
12	RandomForestClassifier	accuracy	50	0.7164179104477612
12	RandomForestClassifier	accuracy	50	0.7388059701492538
12	RandomForestClassifier	accuracy	50	0.7388059701492538
12	RandomForestClassifier	accuracy	50	0.7238805970149254
13	RandomForestClassifier	accuracy	5	0.6917293233082706
13	RandomForestClassifier	accuracy	5	0.706766917293233
13	RandomForestClassifier	accuracy	5	0.6842105263157895
13	RandomForestClassifier	accuracy	5	0.7368421052631579
13	RandomForestClassifier	accuracy	50	0.7443609022556391
13	RandomForestClassifier	accuracy	50	0.7293233082706767
13	RandomForestClassifier	accuracy	50	0.7443609022556391
13	RandomForestClassifier	accuracy	50	0.7218045112781954
14	RandomForestClassifier	accuracy	5	0.7593984962406015
14	RandomForestClassifier	accuracy	5	0.6992481203007519
14	RandomForestClassifier	accuracy	5	0.6616541353383458
14	RandomForestClassifier	accuracy	5	0.6992481203007519
14	RandomForestClassifier	accuracy	50	0.7443609022556391
14	RandomForestClassifier	accuracy	50	0.7819548872180451
14	RandomForestClassifier	accuracy	50	0.7969924812030075
14	RandomForestClassifier	accuracy	50	0.7593984962406015
15	RandomForestClassifier	accuracy	5	0.7518796992481203
15	RandomForestClassifier	accuracy	5	0.7142857142857143
15	RandomForestClassifier	accuracy	5	0.7142857142857143
15	RandomForestClassifier	accuracy	5	0.7142857142857143
15	RandomForestClassifier	accuracy	50	0.7593984962406015
15	RandomForestClassifier	accuracy	50	0.7443609022556391
15	RandomForestClassifier	accuracy	50	0.7218045112781954

15	RandomForestClassifier	accuracy	50	0.7218045112781954
16	RandomForestClassifier	accuracy	5	0.7238805970149254
16	RandomForestClassifier	accuracy	5	0.6716417910447762
16	RandomForestClassifier	accuracy	5	0.6791044776119403
16	RandomForestClassifier	accuracy	5	0.664179104477612
16	RandomForestClassifier	accuracy	50	0.7313432835820896
16	RandomForestClassifier	accuracy	50	0.7089552238805971
16	RandomForestClassifier	accuracy	50	0.7014925373134329
16	RandomForestClassifier	accuracy	50	0.7164179104477612
17	RandomForestClassifier	accuracy	5	0.7313432835820896
17	RandomForestClassifier	accuracy	5	0.7388059701492538
17	RandomForestClassifier	accuracy	5	0.7089552238805971
17	RandomForestClassifier	accuracy	5	0.6865671641791045
17	RandomForestClassifier	accuracy	50	0.753731343283582
17	RandomForestClassifier	accuracy	50	0.753731343283582
17	RandomForestClassifier	accuracy	50	0.753731343283582
17	RandomForestClassifier	accuracy	50	0.753731343283582
18	RandomForestClassifier	accuracy	5	0.7293233082706767
18	RandomForestClassifier	accuracy	5	0.6992481203007519
18	RandomForestClassifier	accuracy	5	0.7142857142857143
18	RandomForestClassifier	accuracy	5	0.7293233082706767
18	RandomForestClassifier	accuracy	50	0.7518796992481203
18	RandomForestClassifier	accuracy	50	0.7443609022556391
18	RandomForestClassifier	accuracy	50	0.7593984962406015
18	RandomForestClassifier	accuracy	50	0.7518796992481203
19	RandomForestClassifier	accuracy	5	0.7218045112781954
19	RandomForestClassifier	accuracy	5	0.7443609022556391
19	RandomForestClassifier	accuracy	5	0.7218045112781954
19	RandomForestClassifier	accuracy	5	0.6691729323308271
19	RandomForestClassifier	accuracy	50	0.7894736842105263
19	RandomForestClassifier	accuracy	50	0.7894736842105263
19	RandomForestClassifier	accuracy	50	0.7894736842105263
19	RandomForestClassifier	accuracy	50	0.7744360902255639
20	RandomForestClassifier	accuracy	5	0.6240601503759399
20	RandomForestClassifier	accuracy	5	0.7142857142857143
20	RandomForestClassifier	accuracy	5	0.706766917293233
20	RandomForestClassifier	accuracy	5	0.6992481203007519
20	RandomForestClassifier	accuracy	50	0.7218045112781954
20	RandomForestClassifier	accuracy	50	0.7518796992481203
20	RandomForestClassifier	accuracy	50	0.7518796992481203
20	RandomForestClassifier	accuracy	50	0.7368421052631579
21	RandomForestClassifier	accuracy	5	0.7089552238805971
21	RandomForestClassifier	accuracy	5	0.7313432835820896

21	RandomForestClassifier	accuracy	5	0.7313432835820896
21	RandomForestClassifier	accuracy	5	0.7388059701492538
21	RandomForestClassifier	accuracy	50	0.7761194029850746
21	RandomForestClassifier	accuracy	50	0.8059701492537313
21	RandomForestClassifier	accuracy	50	0.8059701492537313
21	RandomForestClassifier	accuracy	50	0.7910447761194029
22	RandomForestClassifier	accuracy	5	0.7089552238805971
22	RandomForestClassifier	accuracy	5	0.7761194029850746
22	RandomForestClassifier	accuracy	5	0.753731343283582
22	RandomForestClassifier	accuracy	5	0.6716417910447762
22	RandomForestClassifier	accuracy	50	0.7686567164179104
22	RandomForestClassifier	accuracy	50	0.746268656716418
22	RandomForestClassifier	accuracy	50	0.746268656716418
22	RandomForestClassifier	accuracy	50	0.7761194029850746
23	RandomForestClassifier	accuracy	5	0.7218045112781954
23	RandomForestClassifier	accuracy	5	0.6992481203007519
23	RandomForestClassifier	accuracy	5	0.7518796992481203
23	RandomForestClassifier	accuracy	5	0.7744360902255639
23	RandomForestClassifier	accuracy	50	0.7368421052631579
23	RandomForestClassifier	accuracy	50	0.7669172932330827
23	RandomForestClassifier	accuracy	50	0.7293233082706767
23	RandomForestClassifier	accuracy	50	0.7744360902255639
24	RandomForestClassifier	accuracy	5	0.631578947368421
24	RandomForestClassifier	accuracy	5	0.6466165413533834
24	RandomForestClassifier	accuracy	5	0.6691729323308271
24	RandomForestClassifier	accuracy	5	0.6390977443609023
24	RandomForestClassifier	accuracy	50	0.6691729323308271
24	RandomForestClassifier	accuracy	50	0.7142857142857143
24	RandomForestClassifier	accuracy	50	0.6691729323308271
24	RandomForestClassifier	accuracy	50	0.6766917293233082
25	RandomForestClassifier	accuracy	5	0.7142857142857143
25	RandomForestClassifier	accuracy	5	0.7518796992481203
25	RandomForestClassifier	accuracy	5	0.6992481203007519
25	RandomForestClassifier	accuracy	5	0.6992481203007519
25	RandomForestClassifier	accuracy	50	0.7744360902255639
25	RandomForestClassifier	accuracy	50	0.7819548872180451
25	RandomForestClassifier	accuracy	50	0.7819548872180451
25	RandomForestClassifier	accuracy	50	0.7744360902255639
1	RandomForestClassifier	f1	5	0.7939698492462312
1	RandomForestClassifier	f1	5	0.79
1	RandomForestClassifier	f1	5	0.7684210526315789
1	RandomForestClassifier	f1	5	0.8341708542713567
1	RandomForestClassifier	f1	50	0.8461538461538461

1	RandomForestClassifier	f1	50	0.861244019138756
1	RandomForestClassifier	f1	50	0.8557692307692308
1	RandomForestClassifier	f1	50	0.8516746411483255
2	RandomForestClassifier	f1	5	0.7961165048543688
2	RandomForestClassifier	f1	5	0.8301886792452831
2	RandomForestClassifier	f1	5	0.7959183673469387
2	RandomForestClassifier	f1	5	0.8317757009345795
2	RandomForestClassifier	f1	50	0.8490566037735849
2	RandomForestClassifier	f1	50	0.8557692307692308
2	RandomForestClassifier	f1	50	0.848780487804878
2	RandomForestClassifier	f1	50	0.8380952380952381
3	RandomForestClassifier	f1	5	0.7835051546391754
3	RandomForestClassifier	f1	5	0.7936507936507936
3	RandomForestClassifier	f1	5	0.8163265306122449
3	RandomForestClassifier	f1	5	0.7939698492462313
3	RandomForestClassifier	f1	50	0.852791878172589
3	RandomForestClassifier	f1	50	0.8461538461538463
3	RandomForestClassifier	f1	50	0.8390243902439024
3	RandomForestClassifier	f1	50	0.8349514563106796
4	RandomForestClassifier	f1	5	0.7676767676767677
4	RandomForestClassifier	f1	5	0.7794871794871795
4	RandomForestClassifier	f1	5	0.823529411764706
4	RandomForestClassifier	f1	5	0.7722772277227723
4	RandomForestClassifier	f1	50	0.8115942028985507
4	RandomForestClassifier	f1	50	0.7999999999999999
4	RandomForestClassifier	f1	50	0.8095238095238095
4	RandomForestClassifier	f1	50	0.8252427184466019
5	RandomForestClassifier	f1	5	0.8042328042328043
5	RandomForestClassifier	f1	5	0.7914438502673796
5	RandomForestClassifier	f1	5	0.736842105263158
5	RandomForestClassifier	f1	5	0.7789473684210526
5	RandomForestClassifier	f1	50	0.8253968253968254
5	RandomForestClassifier	f1	50	0.8181818181818182
5	RandomForestClassifier	f1	50	0.8272251308900525
5	RandomForestClassifier	f1	50	0.8500000000000001
6	RandomForestClassifier	f1	5	0.7407407407407407
6	RandomForestClassifier	f1	5	0.7643979057591621
6	RandomForestClassifier	f1	5	0.7979274611398963
6	RandomForestClassifier	f1	5	0.7708333333333333
6	RandomForestClassifier	f1	50	0.8500000000000001
6	RandomForestClassifier	f1	50	0.8358208955223881
6	RandomForestClassifier	f1	50	0.8292682926829268
6	RandomForestClassifier	f1	50	0.8159203980099503

7	RandomForestClassifier	f1	5	0.8038277511961722
7	RandomForestClassifier	f1	5	0.7549019607843137
7	RandomForestClassifier	f1	5	0.787878787878788
7	RandomForestClassifier	f1	5	0.8020304568527918
7	RandomForestClassifier	f1	50	0.8436018957345972
7	RandomForestClassifier	f1	50	0.8640776699029127
7	RandomForestClassifier	f1	50	0.8390243902439024
7	RandomForestClassifier	f1	50	0.8530805687203793
8	RandomForestClassifier	f1	5	0.7897435897435897
8	RandomForestClassifier	f1	5	0.7853403141361257
8	RandomForestClassifier	f1	5	0.7939698492462313
8	RandomForestClassifier	f1	5	0.7604166666666667
8	RandomForestClassifier	f1	50	0.8121827411167513
8	RandomForestClassifier	f1	50	0.8258706467661692
8	RandomForestClassifier	f1	50	0.8223350253807107
8	RandomForestClassifier	f1	50	0.8457711442786069
9	RandomForestClassifier	f1	5	0.7604166666666667
9	RandomForestClassifier	f1	5	0.7777777777777777
9	RandomForestClassifier	f1	5	0.7897435897435897
9	RandomForestClassifier	f1	5	0.787878787878788
9	RandomForestClassifier	f1	50	0.8292682926829268
9	RandomForestClassifier	f1	50	0.8292682926829268
9	RandomForestClassifier	f1	50	0.8405797101449276
9	RandomForestClassifier	f1	50	0.826923076923077
10	RandomForestClassifier	f1	5	0.8247422680412373
10	RandomForestClassifier	f1	5	0.7958115183246073
10	RandomForestClassifier	f1	5	0.836734693877551
10	RandomForestClassifier	f1	5	0.83
10	RandomForestClassifier	f1	50	0.8529411764705881
10	RandomForestClassifier	f1	50	0.86
10	RandomForestClassifier	f1	50	0.8682926829268293
10	RandomForestClassifier	f1	50	0.8699999999999999
11	RandomForestClassifier	f1	5	0.806122448979592
11	RandomForestClassifier	f1	5	0.8316831683168316
11	RandomForestClassifier	f1	5	0.8181818181818181
11	RandomForestClassifier	f1	5	0.8041237113402062
11	RandomForestClassifier	f1	50	0.8557213930348259
11	RandomForestClassifier	f1	50	0.8140703517587939
11	RandomForestClassifier	f1	50	0.8571428571428571
11	RandomForestClassifier	f1	50	0.8121827411167513
12	RandomForestClassifier	f1	5	0.7708333333333333
12	RandomForestClassifier	f1	5	0.8080808080808081
12	RandomForestClassifier	f1	5	0.787878787878788

12	RandomForestClassifier	f1	5	0.7422680412371133
12	RandomForestClassifier	f1	50	0.8155339805825244
12	RandomForestClassifier	f1	50	0.8309178743961352
12	RandomForestClassifier	f1	50	0.8258706467661693
12	RandomForestClassifier	f1	50	0.8159203980099503
13	RandomForestClassifier	f1	5	0.7853403141361257
13	RandomForestClassifier	f1	5	0.8040201005025127
13	RandomForestClassifier	f1	5	0.7835051546391754
13	RandomForestClassifier	f1	5	0.8128342245989305
13	RandomForestClassifier	f1	50	0.8333333333333334
13	RandomForestClassifier	f1	50	0.8285714285714285
13	RandomForestClassifier	f1	50	0.8349514563106796
13	RandomForestClassifier	f1	50	0.821256038647343
14	RandomForestClassifier	f1	5	0.84
14	RandomForestClassifier	f1	5	0.7959183673469389
14	RandomForestClassifier	f1	5	0.7715736040609137
14	RandomForestClassifier	f1	5	0.801980198019802
14	RandomForestClassifier	f1	50	0.8365384615384615
14	RandomForestClassifier	f1	50	0.8599033816425121
14	RandomForestClassifier	f1	50	0.8669950738916257
14	RandomForestClassifier	f1	50	0.8461538461538463
15	RandomForestClassifier	f1	5	0.83248730964467
15	RandomForestClassifier	f1	5	0.81
15	RandomForestClassifier	f1	5	0.8080808080808081
15	RandomForestClassifier	f1	5	0.81
15	RandomForestClassifier	f1	50	0.8446601941747574
15	RandomForestClassifier	f1	50	0.8333333333333334
15	RandomForestClassifier	f1	50	0.821256038647343
15	RandomForestClassifier	f1	50	0.8177339901477831
16	RandomForestClassifier	f1	5	0.8121827411167513
16	RandomForestClassifier	f1	5	0.7777777777777779
16	RandomForestClassifier	f1	5	0.781725888324873
16	RandomForestClassifier	f1	5	0.7738693467336683
16	RandomForestClassifier	f1	50	0.8200000000000001
16	RandomForestClassifier	f1	50	0.8059701492537313
16	RandomForestClassifier	f1	50	0.8
16	RandomForestClassifier	f1	50	0.8137254901960784
17	RandomForestClassifier	f1	5	0.8217821782178217
17	RandomForestClassifier	f1	5	0.8292682926829268
17	RandomForestClassifier	f1	5	0.8040201005025126
17	RandomForestClassifier	f1	5	0.7941176470588235
17	RandomForestClassifier	f1	50	0.8405797101449276
17	RandomForestClassifier	f1	50	0.8421052631578948

17	RandomForestClassifier	f1	50	0.8405797101449276
17	RandomForestClassifier	f1	50	0.8421052631578948
18	RandomForestClassifier	f1	5	0.8181818181818182
18	RandomForestClassifier	f1	5	0.803921568627451
18	RandomForestClassifier	f1	5	0.8041237113402062
18	RandomForestClassifier	f1	5	0.82
18	RandomForestClassifier	f1	50	0.8421052631578947
18	RandomForestClassifier	f1	50	0.8333333333333334
18	RandomForestClassifier	f1	50	0.8461538461538463
18	RandomForestClassifier	f1	50	0.8405797101449276
19	RandomForestClassifier	f1	5	0.8082901554404146
19	RandomForestClassifier	f1	5	0.8349514563106796
19	RandomForestClassifier	f1	5	0.8195121951219512
19	RandomForestClassifier	f1	5	0.7864077669902911
19	RandomForestClassifier	f1	50	0.8640776699029126
19	RandomForestClassifier	f1	50	0.8627450980392158
19	RandomForestClassifier	f1	50	0.86
19	RandomForestClassifier	f1	50	0.8529411764705881
20	RandomForestClassifier	f1	5	0.7282608695652175
20	RandomForestClassifier	f1	5	0.8020833333333334
20	RandomForestClassifier	f1	5	0.7999999999999999
20	RandomForestClassifier	f1	5	0.7938144329896908
20	RandomForestClassifier	f1	50	0.8195121951219512
20	RandomForestClassifier	f1	50	0.8341708542713568
20	RandomForestClassifier	f1	50	0.83248730964467
20	RandomForestClassifier	f1	50	0.8241206030150753
21	RandomForestClassifier	f1	5	0.7958115183246073
21	RandomForestClassifier	f1	5	0.8064516129032258
21	RandomForestClassifier	f1	5	0.8144329896907218
21	RandomForestClassifier	f1	5	0.8223350253807107
21	RandomForestClassifier	f1	50	0.8514851485148516
21	RandomForestClassifier	f1	50	0.8737864077669905
21	RandomForestClassifier	f1	50	0.8725490196078431
21	RandomForestClassifier	f1	50	0.8627450980392157
22	RandomForestClassifier	f1	5	0.8040201005025126
22	RandomForestClassifier	f1	5	0.8514851485148516
22	RandomForestClassifier	f1	5	0.8374384236453202
22	RandomForestClassifier	f1	5	0.7843137254901961
22	RandomForestClassifier	f1	50	0.8544600938967135
22	RandomForestClassifier	f1	50	0.8396226415094339
22	RandomForestClassifier	f1	50	0.8365384615384615
22	RandomForestClassifier	f1	50	0.8584905660377358
23	RandomForestClassifier	f1	5	0.8140703517587939

23	RandomForestClassifier	f1	5	0.803921568627451
23	RandomForestClassifier	f1	5	0.835820895522388
23	RandomForestClassifier	f1	5	0.845360824742268
23	RandomForestClassifier	f1	50	0.8292682926829268
23	RandomForestClassifier	f1	50	0.8457711442786069
23	RandomForestClassifier	f1	50	0.826923076923077
23	RandomForestClassifier	f1	50	0.8557692307692307
24	RandomForestClassifier	f1	5	0.7487179487179487
24	RandomForestClassifier	f1	5	0.758974358974359
24	RandomForestClassifier	f1	5	0.7755102040816327
24	RandomForestClassifier	f1	5	0.7500000000000001
24	RandomForestClassifier	f1	50	0.7731958762886598
24	RandomForestClassifier	f1	50	0.81
24	RandomForestClassifier	f1	50	0.7755102040816327
24	RandomForestClassifier	f1	50	0.7839195979899497
25	RandomForestClassifier	f1	5	0.81
25	RandomForestClassifier	f1	5	0.8341708542713568
25	RandomForestClassifier	f1	5	0.8076923076923077
25	RandomForestClassifier	f1	5	0.801980198019802
25	RandomForestClassifier	f1	50	0.8584905660377358
25	RandomForestClassifier	f1	50	0.861244019138756
25	RandomForestClassifier	f1	50	0.8599033816425121
25	RandomForestClassifier	f1	50	0.8529411764705881

Table 15: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.7238805970149254
1	SVC	accuracy	linear	0.7238805970149254
1	SVC	accuracy	rbf	0.7238805970149254
1	SVC	accuracy	rbf	0.7238805970149254
1	SVC	accuracy	linear	0.7238805970149254
1	SVC	accuracy	linear	0.7238805970149254
1	SVC	accuracy	rbf	0.7238805970149254
1	SVC	accuracy	rbf	0.7238805970149254
2	SVC	accuracy	linear	0.7910447761194029
2	SVC	accuracy	linear	0.7910447761194029
2	SVC	accuracy	rbf	0.7611940298507462
2	SVC	accuracy	rbf	0.7611940298507462
2	SVC	accuracy	linear	0.7910447761194029
2	SVC	accuracy	linear	0.7910447761194029

2	SVC	accuracy	rbf	0.7611940298507462
2	SVC	accuracy	rbf	0.7611940298507462
3	SVC	accuracy	linear	0.7518796992481203
3	SVC	accuracy	linear	0.7518796992481203
3	SVC	accuracy	rbf	0.7593984962406015
3	SVC	accuracy	rbf	0.7593984962406015
3	SVC	accuracy	linear	0.7518796992481203
3	SVC	accuracy	linear	0.7518796992481203
3	SVC	accuracy	rbf	0.7593984962406015
3	SVC	accuracy	rbf	0.7593984962406015
4	SVC	accuracy	linear	0.6842105263157895
4	SVC	accuracy	linear	0.6842105263157895
4	SVC	accuracy	rbf	0.6992481203007519
4	SVC	accuracy	rbf	0.6992481203007519
4	SVC	accuracy	linear	0.6842105263157895
4	SVC	accuracy	linear	0.6842105263157895
4	SVC	accuracy	rbf	0.6992481203007519
4	SVC	accuracy	rbf	0.6992481203007519
5	SVC	accuracy	linear	0.7518796992481203
5	SVC	accuracy	linear	0.7518796992481203
5	SVC	accuracy	rbf	0.7669172932330827
5	SVC	accuracy	rbf	0.7669172932330827
5	SVC	accuracy	linear	0.7518796992481203
5	SVC	accuracy	linear	0.7518796992481203
5	SVC	accuracy	rbf	0.7669172932330827
5	SVC	accuracy	rbf	0.7669172932330827
6	SVC	accuracy	linear	0.7686567164179104
6	SVC	accuracy	linear	0.7686567164179104
6	SVC	accuracy	rbf	0.7835820895522388
6	SVC	accuracy	rbf	0.7835820895522388
6	SVC	accuracy	linear	0.7686567164179104
6	SVC	accuracy	linear	0.7686567164179104
6	SVC	accuracy	rbf	0.7835820895522388
6	SVC	accuracy	rbf	0.7835820895522388
7	SVC	accuracy	linear	0.753731343283582
7	SVC	accuracy	linear	0.753731343283582
7	SVC	accuracy	rbf	0.753731343283582
7	SVC	accuracy	rbf	0.753731343283582
7	SVC	accuracy	linear	0.753731343283582
7	SVC	accuracy	linear	0.753731343283582
7	SVC	accuracy	rbf	0.753731343283582
7	SVC	accuracy	rbf	0.753731343283582
8	SVC	accuracy	linear	0.7142857142857143

8	SVC	accuracy	linear	0.7142857142857143
8	SVC	accuracy	rbf	0.6766917293233082
8	SVC	accuracy	rbf	0.6766917293233082
8	SVC	accuracy	linear	0.7142857142857143
8	SVC	accuracy	linear	0.7142857142857143
8	SVC	accuracy	rbf	0.6766917293233082
8	SVC	accuracy	rbf	0.6766917293233082
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	rbf	0.7669172932330827
9	SVC	accuracy	rbf	0.7669172932330827
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	rbf	0.7669172932330827
9	SVC	accuracy	rbf	0.7669172932330827
10	SVC	accuracy	linear	0.7593984962406015
10	SVC	accuracy	linear	0.7593984962406015
10	SVC	accuracy	rbf	0.7819548872180451
10	SVC	accuracy	rbf	0.7819548872180451
10	SVC	accuracy	linear	0.7593984962406015
10	SVC	accuracy	linear	0.7593984962406015
10	SVC	accuracy	rbf	0.7819548872180451
10	SVC	accuracy	rbf	0.7819548872180451
11	SVC	accuracy	linear	0.7686567164179104
11	SVC	accuracy	linear	0.7686567164179104
11	SVC	accuracy	rbf	0.7761194029850746
11	SVC	accuracy	rbf	0.7761194029850746
11	SVC	accuracy	linear	0.7686567164179104
11	SVC	accuracy	linear	0.7686567164179104
11	SVC	accuracy	rbf	0.7761194029850746
11	SVC	accuracy	rbf	0.7761194029850746
12	SVC	accuracy	linear	0.7164179104477612
12	SVC	accuracy	linear	0.7164179104477612
12	SVC	accuracy	rbf	0.7014925373134329
12	SVC	accuracy	rbf	0.7014925373134329
12	SVC	accuracy	linear	0.7164179104477612
12	SVC	accuracy	linear	0.7164179104477612
12	SVC	accuracy	rbf	0.7014925373134329
12	SVC	accuracy	rbf	0.7014925373134329
13	SVC	accuracy	linear	0.7443609022556391
13	SVC	accuracy	linear	0.7443609022556391
13	SVC	accuracy	rbf	0.7443609022556391
13	SVC	accuracy	rbf	0.7443609022556391

13	SVC	accuracy	linear	0.7443609022556391
13	SVC	accuracy	linear	0.7443609022556391
13	SVC	accuracy	rbf	0.7443609022556391
13	SVC	accuracy	rbf	0.7443609022556391
14	SVC	accuracy	linear	0.7593984962406015
14	SVC	accuracy	linear	0.7593984962406015
14	SVC	accuracy	rbf	0.7443609022556391
14	SVC	accuracy	rbf	0.7443609022556391
14	SVC	accuracy	linear	0.7593984962406015
14	SVC	accuracy	linear	0.7593984962406015
14	SVC	accuracy	rbf	0.7443609022556391
14	SVC	accuracy	rbf	0.7443609022556391
15	SVC	accuracy	linear	0.6917293233082706
15	SVC	accuracy	linear	0.6917293233082706
15	SVC	accuracy	rbf	0.7293233082706767
15	SVC	accuracy	rbf	0.7293233082706767
15	SVC	accuracy	linear	0.6917293233082706
15	SVC	accuracy	linear	0.6917293233082706
15	SVC	accuracy	rbf	0.7293233082706767
15	SVC	accuracy	rbf	0.7293233082706767
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	rbf	0.7388059701492538
17	SVC	accuracy	linear	0.7388059701492538
17	SVC	accuracy	linear	0.7388059701492538
17	SVC	accuracy	rbf	0.7313432835820896
17	SVC	accuracy	rbf	0.7313432835820896
17	SVC	accuracy	linear	0.7388059701492538
17	SVC	accuracy	linear	0.7388059701492538
17	SVC	accuracy	rbf	0.7313432835820896
17	SVC	accuracy	rbf	0.7313432835820896
18	SVC	accuracy	linear	0.7368421052631579
18	SVC	accuracy	linear	0.7368421052631579
18	SVC	accuracy	rbf	0.7368421052631579
18	SVC	accuracy	rbf	0.7368421052631579
18	SVC	accuracy	linear	0.7368421052631579
18	SVC	accuracy	linear	0.7368421052631579
18	SVC	accuracy	rbf	0.7368421052631579

18	SVC	accuracy	rbf	0.7368421052631579
19	SVC	accuracy	linear	0.7894736842105263
19	SVC	accuracy	linear	0.7894736842105263
19	SVC	accuracy	rbf	0.7518796992481203
19	SVC	accuracy	rbf	0.7518796992481203
19	SVC	accuracy	linear	0.7894736842105263
19	SVC	accuracy	linear	0.7894736842105263
19	SVC	accuracy	rbf	0.7518796992481203
19	SVC	accuracy	rbf	0.7518796992481203
20	SVC	accuracy	linear	0.7518796992481203
20	SVC	accuracy	linear	0.7518796992481203
20	SVC	accuracy	rbf	0.7894736842105263
20	SVC	accuracy	rbf	0.7894736842105263
20	SVC	accuracy	linear	0.7518796992481203
20	SVC	accuracy	linear	0.7518796992481203
20	SVC	accuracy	rbf	0.7894736842105263
20	SVC	accuracy	rbf	0.7894736842105263
21	SVC	accuracy	linear	0.7985074626865671
21	SVC	accuracy	linear	0.7985074626865671
21	SVC	accuracy	rbf	0.8134328358208955
21	SVC	accuracy	rbf	0.8134328358208955
21	SVC	accuracy	linear	0.7985074626865671
21	SVC	accuracy	linear	0.7985074626865671
21	SVC	accuracy	rbf	0.8134328358208955
21	SVC	accuracy	rbf	0.8134328358208955
22	SVC	accuracy	linear	0.7014925373134329
22	SVC	accuracy	linear	0.7014925373134329
22	SVC	accuracy	rbf	0.7238805970149254
22	SVC	accuracy	rbf	0.7238805970149254
22	SVC	accuracy	linear	0.7014925373134329
22	SVC	accuracy	linear	0.7014925373134329
22	SVC	accuracy	rbf	0.7238805970149254
22	SVC	accuracy	rbf	0.7238805970149254
23	SVC	accuracy	linear	0.7593984962406015
23	SVC	accuracy	linear	0.7593984962406015
23	SVC	accuracy	rbf	0.7368421052631579
23	SVC	accuracy	rbf	0.7368421052631579
23	SVC	accuracy	linear	0.7593984962406015
23	SVC	accuracy	linear	0.7593984962406015
23	SVC	accuracy	rbf	0.7368421052631579
23	SVC	accuracy	rbf	0.7368421052631579
24	SVC	accuracy	linear	0.6917293233082706
24	SVC	accuracy	linear	0.6917293233082706

24	SVC	accuracy	rbf	0.706766917293233
24	SVC	accuracy	rbf	0.706766917293233
24	SVC	accuracy	linear	0.6917293233082706
24	SVC	accuracy	linear	0.6917293233082706
24	SVC	accuracy	rbf	0.706766917293233
24	SVC	accuracy	rbf	0.706766917293233
25	SVC	accuracy	linear	0.7368421052631579
25	SVC	accuracy	linear	0.7368421052631579
25	SVC	accuracy	rbf	0.7593984962406015
25	SVC	accuracy	rbf	0.7593984962406015
25	SVC	accuracy	linear	0.7368421052631579
25	SVC	accuracy	linear	0.7368421052631579
25	SVC	accuracy	rbf	0.7593984962406015
25	SVC	accuracy	rbf	0.7593984962406015
1	SVC	f1	linear	0.8121827411167513
1	SVC	f1	linear	0.8121827411167513
1	SVC	f1	rbf	0.8310502283105022
1	SVC	f1	rbf	0.8310502283105022
1	SVC	f1	linear	0.8121827411167513
1	SVC	f1	linear	0.8121827411167513
1	SVC	f1	rbf	0.8310502283105022
1	SVC	f1	rbf	0.8310502283105022
2	SVC	f1	linear	0.8653846153846154
2	SVC	f1	linear	0.8653846153846154
2	SVC	f1	rbf	0.8504672897196263
2	SVC	f1	rbf	0.8504672897196263
2	SVC	f1	linear	0.8653846153846154
2	SVC	f1	linear	0.8653846153846154
2	SVC	f1	rbf	0.8504672897196263
2	SVC	f1	rbf	0.8504672897196263
3	SVC	f1	linear	0.835820895522388
3	SVC	f1	linear	0.835820895522388
3	SVC	f1	rbf	0.8431372549019608
3	SVC	f1	rbf	0.8431372549019608
3	SVC	f1	linear	0.835820895522388
3	SVC	f1	linear	0.835820895522388
3	SVC	f1	rbf	0.8431372549019608
3	SVC	f1	rbf	0.8431372549019608
4	SVC	f1	linear	0.7812499999999999
4	SVC	f1	linear	0.7812499999999999
4	SVC	f1	rbf	0.8095238095238095
4	SVC	f1	rbf	0.8095238095238095
4	SVC	f1	linear	0.7812499999999999

4	SVC	f1	linear	0.7812499999999999
4	SVC	f1	rbf	0.8095238095238095
4	SVC	f1	rbf	0.8095238095238095
5	SVC	f1	linear	0.823529411764706
5	SVC	f1	linear	0.823529411764706
5	SVC	f1	rbf	0.8442211055276382
5	SVC	f1	rbf	0.8442211055276382
5	SVC	f1	linear	0.823529411764706
5	SVC	f1	linear	0.823529411764706
5	SVC	f1	rbf	0.8442211055276382
5	SVC	f1	rbf	0.8442211055276382
6	SVC	f1	linear	0.8376963350785339
6	SVC	f1	linear	0.8376963350785339
6	SVC	f1	rbf	0.861244019138756
6	SVC	f1	rbf	0.861244019138756
6	SVC	f1	linear	0.8376963350785339
6	SVC	f1	linear	0.8376963350785339
6	SVC	f1	rbf	0.861244019138756
6	SVC	f1	rbf	0.861244019138756
7	SVC	f1	linear	0.8358208955223881
7	SVC	f1	linear	0.8358208955223881
7	SVC	f1	rbf	0.8450704225352111
7	SVC	f1	rbf	0.8450704225352111
7	SVC	f1	linear	0.8358208955223881
7	SVC	f1	linear	0.8358208955223881
7	SVC	f1	rbf	0.8450704225352111
7	SVC	f1	rbf	0.8450704225352111
8	SVC	f1	linear	0.8020833333333334
8	SVC	f1	linear	0.8020833333333334
8	SVC	f1	rbf	0.7839195979899497
8	SVC	f1	rbf	0.7839195979899497
8	SVC	f1	linear	0.8020833333333334
8	SVC	f1	linear	0.8020833333333334
8	SVC	f1	rbf	0.7839195979899497
8	SVC	f1	rbf	0.7839195979899497
9	SVC	f1	linear	0.8167539267015708
9	SVC	f1	linear	0.8167539267015708
9	SVC	f1	rbf	0.8544600938967136
9	SVC	f1	rbf	0.8544600938967136
9	SVC	f1	linear	0.8167539267015708
9	SVC	f1	linear	0.8167539267015708
9	SVC	f1	rbf	0.8544600938967136
9	SVC	f1	rbf	0.8544600938967136

10	SVC	f1	linear	0.8350515463917527
10	SVC	f1	linear	0.8350515463917527
10	SVC	f1	rbf	0.8571428571428572
10	SVC	f1	rbf	0.8571428571428572
10	SVC	f1	linear	0.8350515463917527
10	SVC	f1	linear	0.8350515463917527
10	SVC	f1	rbf	0.8571428571428572
10	SVC	f1	rbf	0.8571428571428572
11	SVC	f1	linear	0.8426395939086295
11	SVC	f1	linear	0.8426395939086295
11	SVC	f1	rbf	0.8584905660377358
11	SVC	f1	rbf	0.8584905660377358
11	SVC	f1	linear	0.8426395939086295
11	SVC	f1	linear	0.8426395939086295
11	SVC	f1	rbf	0.8584905660377358
11	SVC	f1	rbf	0.8584905660377358
12	SVC	f1	linear	0.8041237113402062
12	SVC	f1	linear	0.8041237113402062
12	SVC	f1	rbf	0.8058252427184466
12	SVC	f1	rbf	0.8058252427184466
12	SVC	f1	linear	0.8041237113402062
12	SVC	f1	linear	0.8041237113402062
12	SVC	f1	rbf	0.8058252427184466
12	SVC	f1	rbf	0.8058252427184466
13	SVC	f1	linear	0.8229166666666666
13	SVC	f1	linear	0.8229166666666666
13	SVC	f1	rbf	0.8365384615384615
13	SVC	f1	rbf	0.8365384615384615
13	SVC	f1	linear	0.8229166666666666
13	SVC	f1	linear	0.8229166666666666
13	SVC	f1	rbf	0.8365384615384615
13	SVC	f1	rbf	0.8365384615384615
14	SVC	f1	linear	0.8415841584158414
14	SVC	f1	linear	0.8415841584158414
14	SVC	f1	rbf	0.8396226415094339
14	SVC	f1	rbf	0.8396226415094339
14	SVC	f1	linear	0.8415841584158414
14	SVC	f1	linear	0.8415841584158414
14	SVC	f1	rbf	0.8396226415094339
14	SVC	f1	rbf	0.8396226415094339
15	SVC	f1	linear	0.7897435897435897
15	SVC	f1	linear	0.7897435897435897
15	SVC	f1	rbf	0.823529411764706

15	SVC	f1	rbf	0.823529411764706
15	SVC	f1	linear	0.7897435897435897
15	SVC	f1	linear	0.7897435897435897
15	SVC	f1	rbf	0.823529411764706
15	SVC	f1	rbf	0.823529411764706
16	SVC	f1	linear	0.7916666666666665
16	SVC	f1	linear	0.7916666666666665
16	SVC	f1	rbf	0.8341232227488151
16	SVC	f1	rbf	0.8341232227488151
16	SVC	f1	linear	0.7916666666666665
16	SVC	f1	linear	0.7916666666666665
16	SVC	f1	rbf	0.8341232227488151
16	SVC	f1	rbf	0.8341232227488151
17	SVC	f1	linear	0.8223350253807107
17	SVC	f1	linear	0.8223350253807107
17	SVC	f1	rbf	0.8333333333333334
17	SVC	f1	rbf	0.8333333333333334
17	SVC	f1	linear	0.8223350253807107
17	SVC	f1	linear	0.8223350253807107
17	SVC	f1	rbf	0.8333333333333334
17	SVC	f1	rbf	0.8333333333333334
18	SVC	f1	linear	0.8205128205128205
18	SVC	f1	linear	0.8205128205128205
18	SVC	f1	rbf	0.8341232227488151
18	SVC	f1	rbf	0.8341232227488151
18	SVC	f1	linear	0.8205128205128205
18	SVC	f1	linear	0.8205128205128205
18	SVC	f1	rbf	0.8341232227488151
18	SVC	f1	rbf	0.8341232227488151
19	SVC	f1	linear	0.8510638297872339
19	SVC	f1	linear	0.8510638297872339
19	SVC	f1	rbf	0.8405797101449276
19	SVC	f1	rbf	0.8405797101449276
19	SVC	f1	linear	0.8510638297872339
19	SVC	f1	linear	0.8510638297872339
19	SVC	f1	rbf	0.8405797101449276
19	SVC	f1	rbf	0.8405797101449276
20	SVC	f1	linear	0.8290155440414508
20	SVC	f1	linear	0.8290155440414508
20	SVC	f1	rbf	0.8585858585858587
20	SVC	f1	rbf	0.8585858585858587
20	SVC	f1	linear	0.8290155440414508
20	SVC	f1	linear	0.8290155440414508

20	SVC	f1	rbf	0.8585858585858587
20	SVC	f1	rbf	0.8585858585858587
21	SVC	f1	linear	0.8601036269430052
21	SVC	f1	linear	0.8601036269430052
21	SVC	f1	rbf	0.8792270531400965
21	SVC	f1	rbf	0.8792270531400965
21	SVC	f1	linear	0.8601036269430052
21	SVC	f1	linear	0.8601036269430052
21	SVC	f1	rbf	0.8792270531400965
21	SVC	f1	rbf	0.8792270531400965
22	SVC	f1	linear	0.8058252427184466
22	SVC	f1	linear	0.8058252427184466
22	SVC	f1	rbf	0.8279069767441861
22	SVC	f1	rbf	0.8279069767441861
22	SVC	f1	linear	0.8058252427184466
22	SVC	f1	linear	0.8058252427184466
22	SVC	f1	rbf	0.8279069767441861
22	SVC	f1	rbf	0.8279069767441861
23	SVC	f1	linear	0.836734693877551
23	SVC	f1	linear	0.836734693877551
23	SVC	f1	rbf	0.8309178743961353
23	SVC	f1	rbf	0.8309178743961353
23	SVC	f1	linear	0.836734693877551
23	SVC	f1	linear	0.836734693877551
23	SVC	f1	rbf	0.8309178743961353
23	SVC	f1	rbf	0.8309178743961353
24	SVC	f1	linear	0.7853403141361257
24	SVC	f1	linear	0.7853403141361257
24	SVC	f1	rbf	0.8151658767772512
24	SVC	f1	rbf	0.8151658767772512
24	SVC	f1	linear	0.7853403141361257
24	SVC	f1	linear	0.7853403141361257
24	SVC	f1	rbf	0.8151658767772512
24	SVC	f1	rbf	0.8151658767772512
25	SVC	f1	linear	0.8258706467661692
25	SVC	f1	linear	0.8258706467661692
25	SVC	f1	rbf	0.8476190476190476
25	SVC	f1	rbf	0.8476190476190476
25	SVC	f1	linear	0.8258706467661692
25	SVC	f1	linear	0.8258706467661692
25	SVC	f1	rbf	0.8476190476190476
25	SVC	f1	rbf	0.8476190476190476

Table 16: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
1	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
1	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
1	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
1	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
1	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
1	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
1	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
2	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
2	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
2	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
2	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
2	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
2	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
2	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
2	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
3	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
3	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
3	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
3	DecisionTreeClassifier	accuracy	entropy	0.7518796992481203
3	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
3	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
3	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
3	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
4	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
4	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
4	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
4	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
4	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
4	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
4	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
4	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
5	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
5	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
5	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
5	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
5	DecisionTreeClassifier	accuracy	gini	0.6766917293233082

5	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
5	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
5	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
6	DecisionTreeClassifier	accuracy	gini	0.7313432835820896
6	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
6	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
6	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
6	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
6	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
6	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
6	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
7	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
7	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
7	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
7	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
7	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
7	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
7	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
7	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
8	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
8	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
8	DecisionTreeClassifier	accuracy	gini	0.631578947368421
8	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
8	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
8	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
8	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
8	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
9	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
9	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
9	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
9	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
9	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
9	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
9	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
9	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
10	DecisionTreeClassifier	accuracy	gini	0.7443609022556391
10	DecisionTreeClassifier	accuracy	entropy	0.7518796992481203
10	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
10	DecisionTreeClassifier	accuracy	entropy	0.7593984962406015
10	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
10	DecisionTreeClassifier	accuracy	entropy	0.7443609022556391
10	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
10	DecisionTreeClassifier	accuracy	entropy	0.7518796992481203

11	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
11	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
11	DecisionTreeClassifier	accuracy	gini	0.6044776119402985
11	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
11	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
11	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
11	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
11	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
12	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
12	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
12	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
12	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
12	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
12	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
12	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
12	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
13	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
13	DecisionTreeClassifier	accuracy	entropy	0.6015037593984962
13	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
13	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
13	DecisionTreeClassifier	accuracy	gini	0.631578947368421
13	DecisionTreeClassifier	accuracy	entropy	0.6015037593984962
13	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
13	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
14	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
14	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
14	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
14	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
14	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
14	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
14	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
14	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
15	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
15	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
15	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
15	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
15	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
15	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
15	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
15	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
16	DecisionTreeClassifier	accuracy	gini	0.6119402985074627
16	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
16	DecisionTreeClassifier	accuracy	gini	0.6194029850746269

16	DecisionTreeClassifier	accuracy	entropy	0.5895522388059702
16	DecisionTreeClassifier	accuracy	gini	0.6119402985074627
16	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
16	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
16	DecisionTreeClassifier	accuracy	entropy	0.6194029850746269
17	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
17	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
17	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
17	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
17	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
17	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
17	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
17	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
18	DecisionTreeClassifier	accuracy	gini	0.706766917293233
18	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
18	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
18	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
18	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
18	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
18	DecisionTreeClassifier	accuracy	gini	0.7518796992481203
18	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
19	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
19	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
19	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
19	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
19	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
19	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
19	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
19	DecisionTreeClassifier	accuracy	entropy	0.7443609022556391
20	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
20	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
20	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
20	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
20	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
20	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
20	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
20	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
21	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
21	DecisionTreeClassifier	accuracy	entropy	0.746268656716418
21	DecisionTreeClassifier	accuracy	gini	0.7388059701492538
21	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
21	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
21	DecisionTreeClassifier	accuracy	entropy	0.753731343283582

21	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
21	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
22	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
22	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
22	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
22	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
22	DecisionTreeClassifier	accuracy	gini	0.6194029850746269
22	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
22	DecisionTreeClassifier	accuracy	gini	0.6194029850746269
22	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
23	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
23	DecisionTreeClassifier	accuracy	entropy	0.5864661654135338
23	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
23	DecisionTreeClassifier	accuracy	entropy	0.6165413533834586
23	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
23	DecisionTreeClassifier	accuracy	entropy	0.6015037593984962
23	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
23	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
24	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
24	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
24	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
24	DecisionTreeClassifier	accuracy	entropy	0.5789473684210527
24	DecisionTreeClassifier	accuracy	gini	0.631578947368421
24	DecisionTreeClassifier	accuracy	entropy	0.5789473684210527
24	DecisionTreeClassifier	accuracy	gini	0.6090225563909775
24	DecisionTreeClassifier	accuracy	entropy	0.5864661654135338
25	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
25	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
25	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
25	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
25	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
25	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
25	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
25	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
1	DecisionTreeClassifier	f1	gini	0.7789473684210526
1	DecisionTreeClassifier	f1	entropy	0.7444444444444445
1	DecisionTreeClassifier	f1	gini	0.7634408602150538
1	DecisionTreeClassifier	f1	entropy	0.7191011235955055
1	DecisionTreeClassifier	f1	gini	0.7659574468085105
1	DecisionTreeClassifier	f1	entropy	0.7126436781609196
1	DecisionTreeClassifier	f1	gini	0.7659574468085105
1	DecisionTreeClassifier	f1	entropy	0.7555555555555555
2	DecisionTreeClassifier	f1	gini	0.7555555555555555

2	DecisionTreeClassifier	f1	entropy	0.7675675675675676
2	DecisionTreeClassifier	f1	gini	0.7759562841530055
2	DecisionTreeClassifier	f1	entropy	0.7528089887640449
2	DecisionTreeClassifier	f1	gini	0.7692307692307692
2	DecisionTreeClassifier	f1	entropy	0.7608695652173912
2	DecisionTreeClassifier	f1	gini	0.7734806629834253
2	DecisionTreeClassifier	f1	entropy	0.7675675675675676
3	DecisionTreeClassifier	f1	gini	0.8
3	DecisionTreeClassifier	f1	entropy	0.8105263157894737
3	DecisionTreeClassifier	f1	gini	0.776595744680851
3	DecisionTreeClassifier	f1	entropy	0.8272251308900525
3	DecisionTreeClassifier	f1	gini	0.7830687830687831
3	DecisionTreeClassifier	f1	entropy	0.8167539267015708
3	DecisionTreeClassifier	f1	gini	0.776595744680851
3	DecisionTreeClassifier	f1	entropy	0.8064516129032258
4	DecisionTreeClassifier	f1	gini	0.7526881720430108
4	DecisionTreeClassifier	f1	entropy	0.7692307692307693
4	DecisionTreeClassifier	f1	gini	0.7403314917127072
4	DecisionTreeClassifier	f1	entropy	0.7419354838709677
4	DecisionTreeClassifier	f1	gini	0.7472527472527474
4	DecisionTreeClassifier	f1	entropy	0.7634408602150536
4	DecisionTreeClassifier	f1	gini	0.7540983606557377
4	DecisionTreeClassifier	f1	entropy	0.7650273224043715
5	DecisionTreeClassifier	f1	gini	0.7472527472527474
5	DecisionTreeClassifier	f1	entropy	0.7956989247311826
5	DecisionTreeClassifier	f1	gini	0.7650273224043715
5	DecisionTreeClassifier	f1	entropy	0.7802197802197802
5	DecisionTreeClassifier	f1	gini	0.7597765363128492
5	DecisionTreeClassifier	f1	entropy	0.7759562841530053
5	DecisionTreeClassifier	f1	gini	0.7624309392265195
5	DecisionTreeClassifier	f1	entropy	0.7978723404255319
6	DecisionTreeClassifier	f1	gini	0.8144329896907218
6	DecisionTreeClassifier	f1	entropy	0.7741935483870968
6	DecisionTreeClassifier	f1	gini	0.8082901554404145
6	DecisionTreeClassifier	f1	entropy	0.776595744680851
6	DecisionTreeClassifier	f1	gini	0.783068783068783
6	DecisionTreeClassifier	f1	entropy	0.7675675675675676
6	DecisionTreeClassifier	f1	gini	0.7853403141361256
6	DecisionTreeClassifier	f1	entropy	0.7807486631016043
7	DecisionTreeClassifier	f1	gini	0.7431693989071038
7	DecisionTreeClassifier	f1	entropy	0.745945945945946
7	DecisionTreeClassifier	f1	gini	0.7708333333333333
7	DecisionTreeClassifier	f1	entropy	0.7391304347826088

7	DecisionTreeClassifier	f1	gini	0.7539267015706806
7	DecisionTreeClassifier	f1	entropy	0.7486631016042781
7	DecisionTreeClassifier	f1	gini	0.7526881720430109
7	DecisionTreeClassifier	f1	entropy	0.745945945945946
8	DecisionTreeClassifier	f1	gini	0.7340425531914895
8	DecisionTreeClassifier	f1	entropy	0.7291666666666666
8	DecisionTreeClassifier	f1	gini	0.7407407407407406
8	DecisionTreeClassifier	f1	entropy	0.7551020408163266
8	DecisionTreeClassifier	f1	gini	0.7395833333333334
8	DecisionTreeClassifier	f1	entropy	0.7473684210526316
8	DecisionTreeClassifier	f1	gini	0.7668393782383419
8	DecisionTreeClassifier	f1	entropy	0.7395833333333334
9	DecisionTreeClassifier	f1	gini	0.7459459459459459
9	DecisionTreeClassifier	f1	entropy	0.7526881720430108
9	DecisionTreeClassifier	f1	gini	0.7459459459459459
9	DecisionTreeClassifier	f1	entropy	0.7391304347826086
9	DecisionTreeClassifier	f1	gini	0.7486631016042781
9	DecisionTreeClassifier	f1	entropy	0.7173913043478262
9	DecisionTreeClassifier	f1	gini	0.7431693989071038
9	DecisionTreeClassifier	f1	entropy	0.7351351351351352
10	DecisionTreeClassifier	f1	gini	0.8229166666666666
10	DecisionTreeClassifier	f1	entropy	0.8272251308900525
10	DecisionTreeClassifier	f1	gini	0.8186528497409327
10	DecisionTreeClassifier	f1	entropy	0.8333333333333333
10	DecisionTreeClassifier	f1	gini	0.8
10	DecisionTreeClassifier	f1	entropy	0.8210526315789475
10	DecisionTreeClassifier	f1	gini	0.8105263157894737
10	DecisionTreeClassifier	f1	entropy	0.8290155440414508
11	DecisionTreeClassifier	f1	gini	0.7431693989071038
11	DecisionTreeClassifier	f1	entropy	0.770053475935829
11	DecisionTreeClassifier	f1	gini	0.7039106145251397
11	DecisionTreeClassifier	f1	entropy	0.7567567567567567
11	DecisionTreeClassifier	f1	gini	0.7252747252747254
11	DecisionTreeClassifier	f1	entropy	0.7553191489361702
11	DecisionTreeClassifier	f1	gini	0.7608695652173912
11	DecisionTreeClassifier	f1	entropy	0.7513227513227513
12	DecisionTreeClassifier	f1	gini	0.770053475935829
12	DecisionTreeClassifier	f1	entropy	0.7222222222222223
12	DecisionTreeClassifier	f1	gini	0.7759562841530055
12	DecisionTreeClassifier	f1	entropy	0.7362637362637362
12	DecisionTreeClassifier	f1	gini	0.7783783783783782
12	DecisionTreeClassifier	f1	entropy	0.7322404371584699
12	DecisionTreeClassifier	f1	gini	0.7783783783783782

12	DecisionTreeClassifier	f1	entropy	0.7407407407407407
13	DecisionTreeClassifier	f1	gini	0.7252747252747254
13	DecisionTreeClassifier	f1	entropy	0.7195767195767196
13	DecisionTreeClassifier	f1	gini	0.7362637362637361
13	DecisionTreeClassifier	f1	entropy	0.736842105263158
13	DecisionTreeClassifier	f1	gini	0.729281767955801
13	DecisionTreeClassifier	f1	entropy	0.7195767195767196
13	DecisionTreeClassifier	f1	gini	0.7243243243243243
13	DecisionTreeClassifier	f1	entropy	0.7263157894736842
14	DecisionTreeClassifier	f1	gini	0.768421052631579
14	DecisionTreeClassifier	f1	entropy	0.7853403141361257
14	DecisionTreeClassifier	f1	gini	0.7812499999999999
14	DecisionTreeClassifier	f1	entropy	0.7938144329896908
14	DecisionTreeClassifier	f1	gini	0.7959183673469389
14	DecisionTreeClassifier	f1	entropy	0.7578947368421053
14	DecisionTreeClassifier	f1	gini	0.7789473684210526
14	DecisionTreeClassifier	f1	entropy	0.7748691099476439
15	DecisionTreeClassifier	f1	gini	0.7692307692307693
15	DecisionTreeClassifier	f1	entropy	0.7748691099476439
15	DecisionTreeClassifier	f1	gini	0.7676767676767677
15	DecisionTreeClassifier	f1	entropy	0.7403314917127072
15	DecisionTreeClassifier	f1	gini	0.7500000000000001
15	DecisionTreeClassifier	f1	entropy	0.7351351351351352
15	DecisionTreeClassifier	f1	gini	0.7329842931937173
15	DecisionTreeClassifier	f1	entropy	0.7322404371584699
16	DecisionTreeClassifier	f1	gini	0.7011494252873564
16	DecisionTreeClassifier	f1	entropy	0.7351351351351353
16	DecisionTreeClassifier	f1	gini	0.7150837988826815
16	DecisionTreeClassifier	f1	entropy	0.6892655367231639
16	DecisionTreeClassifier	f1	gini	0.7078651685393258
16	DecisionTreeClassifier	f1	entropy	0.7351351351351353
16	DecisionTreeClassifier	f1	gini	0.7333333333333334
16	DecisionTreeClassifier	f1	entropy	0.7182320441988951
17	DecisionTreeClassifier	f1	gini	0.774869109947644
17	DecisionTreeClassifier	f1	entropy	0.7894736842105263
17	DecisionTreeClassifier	f1	gini	0.7812500000000001
17	DecisionTreeClassifier	f1	entropy	0.783068783068783
17	DecisionTreeClassifier	f1	gini	0.774869109947644
17	DecisionTreeClassifier	f1	entropy	0.7634408602150538
17	DecisionTreeClassifier	f1	gini	0.8
17	DecisionTreeClassifier	f1	entropy	0.7634408602150538
18	DecisionTreeClassifier	f1	gini	0.7936507936507936
18	DecisionTreeClassifier	f1	entropy	0.768421052631579

18	DecisionTreeClassifier	f1	gini	0.7826086956521738
18	DecisionTreeClassifier	f1	entropy	0.7643979057591623
18	DecisionTreeClassifier	f1	gini	0.7849462365591398
18	DecisionTreeClassifier	f1	entropy	0.7486631016042781
18	DecisionTreeClassifier	f1	gini	0.8290155440414508
18	DecisionTreeClassifier	f1	entropy	0.7789473684210526
19	DecisionTreeClassifier	f1	gini	0.8061224489795918
19	DecisionTreeClassifier	f1	entropy	0.7958115183246073
19	DecisionTreeClassifier	f1	gini	0.8181818181818182
19	DecisionTreeClassifier	f1	entropy	0.7978723404255319
19	DecisionTreeClassifier	f1	gini	0.8020833333333334
19	DecisionTreeClassifier	f1	entropy	0.7978723404255319
19	DecisionTreeClassifier	f1	gini	0.7853403141361257
19	DecisionTreeClassifier	f1	entropy	0.826530612244898
20	DecisionTreeClassifier	f1	gini	0.7608695652173912
20	DecisionTreeClassifier	f1	entropy	0.7914438502673796
20	DecisionTreeClassifier	f1	gini	0.7459459459459459
20	DecisionTreeClassifier	f1	entropy	0.7830687830687831
20	DecisionTreeClassifier	f1	gini	0.7252747252747254
20	DecisionTreeClassifier	f1	entropy	0.8167539267015708
20	DecisionTreeClassifier	f1	gini	0.7593582887700534
20	DecisionTreeClassifier	f1	entropy	0.8020833333333334
21	DecisionTreeClassifier	f1	gini	0.7978723404255319
21	DecisionTreeClassifier	f1	entropy	0.8282828282828283
21	DecisionTreeClassifier	f1	gini	0.8148148148148148
21	DecisionTreeClassifier	f1	entropy	0.7894736842105263
21	DecisionTreeClassifier	f1	gini	0.8042328042328043
21	DecisionTreeClassifier	f1	entropy	0.8290155440414508
21	DecisionTreeClassifier	f1	gini	0.7999999999999999
21	DecisionTreeClassifier	f1	entropy	0.8020833333333333
22	DecisionTreeClassifier	f1	gini	0.7604166666666667
22	DecisionTreeClassifier	f1	entropy	0.7473684210526316
22	DecisionTreeClassifier	f1	gini	0.743455497382199
22	DecisionTreeClassifier	f1	entropy	0.7340425531914893
22	DecisionTreeClassifier	f1	gini	0.7357512953367876
22	DecisionTreeClassifier	f1	entropy	0.7407407407407407
22	DecisionTreeClassifier	f1	gini	0.7357512953367876
22	DecisionTreeClassifier	f1	entropy	0.7539267015706806
23	DecisionTreeClassifier	f1	gini	0.7283236994219653
23	DecisionTreeClassifier	f1	entropy	0.6783625730994153
23	DecisionTreeClassifier	f1	gini	0.7640449438202247
23	DecisionTreeClassifier	f1	entropy	0.7085714285714285
23	DecisionTreeClassifier	f1	gini	0.7500000000000001

23	DecisionTreeClassifier	f1	entropy	0.6936416184971099
23	DecisionTreeClassifier	f1	gini	0.7777777777777778
23	DecisionTreeClassifier	f1	entropy	0.7344632768361582
24	DecisionTreeClassifier	f1	gini	0.7252747252747254
24	DecisionTreeClassifier	f1	entropy	0.729281767955801
24	DecisionTreeClassifier	f1	gini	0.7391304347826086
24	DecisionTreeClassifier	f1	entropy	0.6923076923076923
24	DecisionTreeClassifier	f1	gini	0.7379679144385027
24	DecisionTreeClassifier	f1	entropy	0.6888888888888889
24	DecisionTreeClassifier	f1	gini	0.7173913043478262
24	DecisionTreeClassifier	f1	entropy	0.6927374301675978
25	DecisionTreeClassifier	f1	gini	0.7582417582417582
25	DecisionTreeClassifier	f1	entropy	0.7741935483870968
25	DecisionTreeClassifier	f1	gini	0.7415730337078652
25	DecisionTreeClassifier	f1	entropy	0.7807486631016043
25	DecisionTreeClassifier	f1	gini	0.7570621468926554
25	DecisionTreeClassifier	f1	entropy	0.7807486631016043
25	DecisionTreeClassifier	f1	gini	0.7542857142857143
25	DecisionTreeClassifier	f1	entropy	0.7783783783783783

Table 17: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.7014925373134329
1	RandomForestClassifier	accuracy	5	0.7164179104477612
1	RandomForestClassifier	accuracy	5	0.7089552238805971
1	RandomForestClassifier	accuracy	5	0.6791044776119403
1	RandomForestClassifier	accuracy	50	0.7164179104477612
1	RandomForestClassifier	accuracy	50	0.7313432835820896
1	RandomForestClassifier	accuracy	50	0.7313432835820896
1	RandomForestClassifier	accuracy	50	0.7164179104477612
2	RandomForestClassifier	accuracy	5	0.7238805970149254
2	RandomForestClassifier	accuracy	5	0.7164179104477612
2	RandomForestClassifier	accuracy	5	0.7164179104477612
2	RandomForestClassifier	accuracy	5	0.753731343283582
2	RandomForestClassifier	accuracy	50	0.7611940298507462
2	RandomForestClassifier	accuracy	50	0.7835820895522388
2	RandomForestClassifier	accuracy	50	0.7761194029850746
2	RandomForestClassifier	accuracy	50	0.7611940298507462
3	RandomForestClassifier	accuracy	5	0.6917293233082706
3	RandomForestClassifier	accuracy	5	0.6992481203007519

3	RandomForestClassifier	accuracy	5	0.6691729323308271
3	RandomForestClassifier	accuracy	5	0.6616541353383458
3	RandomForestClassifier	accuracy	50	0.6917293233082706
3	RandomForestClassifier	accuracy	50	0.6917293233082706
3	RandomForestClassifier	accuracy	50	0.7218045112781954
3	RandomForestClassifier	accuracy	50	0.6917293233082706
4	RandomForestClassifier	accuracy	5	0.6766917293233082
4	RandomForestClassifier	accuracy	5	0.7518796992481203
4	RandomForestClassifier	accuracy	5	0.706766917293233
4	RandomForestClassifier	accuracy	5	0.7218045112781954
4	RandomForestClassifier	accuracy	50	0.7518796992481203
4	RandomForestClassifier	accuracy	50	0.7443609022556391
4	RandomForestClassifier	accuracy	50	0.7894736842105263
4	RandomForestClassifier	accuracy	50	0.7443609022556391
5	RandomForestClassifier	accuracy	5	0.6992481203007519
5	RandomForestClassifier	accuracy	5	0.7368421052631579
5	RandomForestClassifier	accuracy	5	0.7443609022556391
5	RandomForestClassifier	accuracy	5	0.6842105263157895
5	RandomForestClassifier	accuracy	50	0.7744360902255639
5	RandomForestClassifier	accuracy	50	0.7819548872180451
5	RandomForestClassifier	accuracy	50	0.7593984962406015
5	RandomForestClassifier	accuracy	50	0.7518796992481203
6	RandomForestClassifier	accuracy	5	0.7089552238805971
6	RandomForestClassifier	accuracy	5	0.7238805970149254
6	RandomForestClassifier	accuracy	5	0.7014925373134329
6	RandomForestClassifier	accuracy	5	0.753731343283582
6	RandomForestClassifier	accuracy	50	0.7388059701492538
6	RandomForestClassifier	accuracy	50	0.7686567164179104
6	RandomForestClassifier	accuracy	50	0.7910447761194029
6	RandomForestClassifier	accuracy	50	0.7761194029850746
7	RandomForestClassifier	accuracy	5	0.7089552238805971
7	RandomForestClassifier	accuracy	5	0.7388059701492538
7	RandomForestClassifier	accuracy	5	0.6716417910447762
7	RandomForestClassifier	accuracy	5	0.7313432835820896
7	RandomForestClassifier	accuracy	50	0.746268656716418
7	RandomForestClassifier	accuracy	50	0.7388059701492538
7	RandomForestClassifier	accuracy	50	0.7313432835820896
7	RandomForestClassifier	accuracy	50	0.753731343283582
8	RandomForestClassifier	accuracy	5	0.706766917293233
8	RandomForestClassifier	accuracy	5	0.7293233082706767
8	RandomForestClassifier	accuracy	5	0.7142857142857143
8	RandomForestClassifier	accuracy	5	0.6917293233082706
8	RandomForestClassifier	accuracy	50	0.7293233082706767

8	RandomForestClassifier	accuracy	50	0.7443609022556391
8	RandomForestClassifier	accuracy	50	0.7593984962406015
8	RandomForestClassifier	accuracy	50	0.7593984962406015
9	RandomForestClassifier	accuracy	5	0.706766917293233
9	RandomForestClassifier	accuracy	5	0.6917293233082706
9	RandomForestClassifier	accuracy	5	0.6766917293233082
9	RandomForestClassifier	accuracy	5	0.6992481203007519
9	RandomForestClassifier	accuracy	50	0.7293233082706767
9	RandomForestClassifier	accuracy	50	0.7142857142857143
9	RandomForestClassifier	accuracy	50	0.6842105263157895
9	RandomForestClassifier	accuracy	50	0.7218045112781954
10	RandomForestClassifier	accuracy	5	0.706766917293233
10	RandomForestClassifier	accuracy	5	0.7518796992481203
10	RandomForestClassifier	accuracy	5	0.6992481203007519
10	RandomForestClassifier	accuracy	5	0.7443609022556391
10	RandomForestClassifier	accuracy	50	0.7744360902255639
10	RandomForestClassifier	accuracy	50	0.7744360902255639
10	RandomForestClassifier	accuracy	50	0.7593984962406015
10	RandomForestClassifier	accuracy	50	0.7969924812030075
11	RandomForestClassifier	accuracy	5	0.7686567164179104
11	RandomForestClassifier	accuracy	5	0.7089552238805971
11	RandomForestClassifier	accuracy	5	0.7238805970149254
11	RandomForestClassifier	accuracy	5	0.7313432835820896
11	RandomForestClassifier	accuracy	50	0.753731343283582
11	RandomForestClassifier	accuracy	50	0.7686567164179104
11	RandomForestClassifier	accuracy	50	0.7835820895522388
11	RandomForestClassifier	accuracy	50	0.8283582089552238
12	RandomForestClassifier	accuracy	5	0.6567164179104478
12	RandomForestClassifier	accuracy	5	0.6567164179104478
12	RandomForestClassifier	accuracy	5	0.6865671641791045
12	RandomForestClassifier	accuracy	5	0.6865671641791045
12	RandomForestClassifier	accuracy	50	0.6865671641791045
12	RandomForestClassifier	accuracy	50	0.7313432835820896
12	RandomForestClassifier	accuracy	50	0.7089552238805971
12	RandomForestClassifier	accuracy	50	0.7089552238805971
13	RandomForestClassifier	accuracy	5	0.7218045112781954
13	RandomForestClassifier	accuracy	5	0.7218045112781954
13	RandomForestClassifier	accuracy	5	0.6390977443609023
13	RandomForestClassifier	accuracy	5	0.6766917293233082
13	RandomForestClassifier	accuracy	50	0.7443609022556391
13	RandomForestClassifier	accuracy	50	0.7368421052631579
13	RandomForestClassifier	accuracy	50	0.7293233082706767
13	RandomForestClassifier	accuracy	50	0.7593984962406015

14	RandomForestClassifier	accuracy	5	0.706766917293233
14	RandomForestClassifier	accuracy	5	0.7293233082706767
14	RandomForestClassifier	accuracy	5	0.7218045112781954
14	RandomForestClassifier	accuracy	5	0.6842105263157895
14	RandomForestClassifier	accuracy	50	0.7518796992481203
14	RandomForestClassifier	accuracy	50	0.7443609022556391
14	RandomForestClassifier	accuracy	50	0.7518796992481203
14	RandomForestClassifier	accuracy	50	0.7819548872180451
15	RandomForestClassifier	accuracy	5	0.6992481203007519
15	RandomForestClassifier	accuracy	5	0.7293233082706767
15	RandomForestClassifier	accuracy	5	0.7669172932330827
15	RandomForestClassifier	accuracy	5	0.7518796992481203
15	RandomForestClassifier	accuracy	50	0.7669172932330827
15	RandomForestClassifier	accuracy	50	0.7669172932330827
15	RandomForestClassifier	accuracy	50	0.7518796992481203
15	RandomForestClassifier	accuracy	50	0.7443609022556391
16	RandomForestClassifier	accuracy	5	0.7164179104477612
16	RandomForestClassifier	accuracy	5	0.7014925373134329
16	RandomForestClassifier	accuracy	5	0.7238805970149254
16	RandomForestClassifier	accuracy	5	0.753731343283582
16	RandomForestClassifier	accuracy	50	0.7238805970149254
16	RandomForestClassifier	accuracy	50	0.753731343283582
16	RandomForestClassifier	accuracy	50	0.7611940298507462
16	RandomForestClassifier	accuracy	50	0.7686567164179104
17	RandomForestClassifier	accuracy	5	0.6268656716417911
17	RandomForestClassifier	accuracy	5	0.7611940298507462
17	RandomForestClassifier	accuracy	5	0.7611940298507462
17	RandomForestClassifier	accuracy	5	0.7164179104477612
17	RandomForestClassifier	accuracy	50	0.7910447761194029
17	RandomForestClassifier	accuracy	50	0.8059701492537313
17	RandomForestClassifier	accuracy	50	0.7910447761194029
17	RandomForestClassifier	accuracy	50	0.7910447761194029
18	RandomForestClassifier	accuracy	5	0.7218045112781954
18	RandomForestClassifier	accuracy	5	0.706766917293233
18	RandomForestClassifier	accuracy	5	0.7593984962406015
18	RandomForestClassifier	accuracy	5	0.6917293233082706
18	RandomForestClassifier	accuracy	50	0.7894736842105263
18	RandomForestClassifier	accuracy	50	0.7669172932330827
18	RandomForestClassifier	accuracy	50	0.7443609022556391
18	RandomForestClassifier	accuracy	50	0.7819548872180451
19	RandomForestClassifier	accuracy	5	0.6992481203007519
19	RandomForestClassifier	accuracy	5	0.7293233082706767
19	RandomForestClassifier	accuracy	5	0.6691729323308271

19	RandomForestClassifier	accuracy	5	0.706766917293233
19	RandomForestClassifier	accuracy	50	0.7593984962406015
19	RandomForestClassifier	accuracy	50	0.7518796992481203
19	RandomForestClassifier	accuracy	50	0.7593984962406015
19	RandomForestClassifier	accuracy	50	0.7593984962406015
20	RandomForestClassifier	accuracy	5	0.6842105263157895
20	RandomForestClassifier	accuracy	5	0.631578947368421
20	RandomForestClassifier	accuracy	5	0.6616541353383458
20	RandomForestClassifier	accuracy	5	0.6766917293233082
20	RandomForestClassifier	accuracy	50	0.7368421052631579
20	RandomForestClassifier	accuracy	50	0.6917293233082706
20	RandomForestClassifier	accuracy	50	0.7218045112781954
20	RandomForestClassifier	accuracy	50	0.7443609022556391
21	RandomForestClassifier	accuracy	5	0.7313432835820896
21	RandomForestClassifier	accuracy	5	0.6865671641791045
21	RandomForestClassifier	accuracy	5	0.6492537313432836
21	RandomForestClassifier	accuracy	5	0.7313432835820896
21	RandomForestClassifier	accuracy	50	0.7014925373134329
21	RandomForestClassifier	accuracy	50	0.7238805970149254
21	RandomForestClassifier	accuracy	50	0.7238805970149254
21	RandomForestClassifier	accuracy	50	0.746268656716418
22	RandomForestClassifier	accuracy	5	0.7985074626865671
22	RandomForestClassifier	accuracy	5	0.6940298507462687
22	RandomForestClassifier	accuracy	5	0.6865671641791045
22	RandomForestClassifier	accuracy	5	0.7164179104477612
22	RandomForestClassifier	accuracy	50	0.753731343283582
22	RandomForestClassifier	accuracy	50	0.7611940298507462
22	RandomForestClassifier	accuracy	50	0.7910447761194029
22	RandomForestClassifier	accuracy	50	0.7761194029850746
23	RandomForestClassifier	accuracy	5	0.6390977443609023
23	RandomForestClassifier	accuracy	5	0.6842105263157895
23	RandomForestClassifier	accuracy	5	0.6992481203007519
23	RandomForestClassifier	accuracy	5	0.7518796992481203
23	RandomForestClassifier	accuracy	50	0.7744360902255639
23	RandomForestClassifier	accuracy	50	0.7142857142857143
23	RandomForestClassifier	accuracy	50	0.7518796992481203
23	RandomForestClassifier	accuracy	50	0.7593984962406015
24	RandomForestClassifier	accuracy	5	0.6466165413533834
24	RandomForestClassifier	accuracy	5	0.6616541353383458
24	RandomForestClassifier	accuracy	5	0.6842105263157895
24	RandomForestClassifier	accuracy	5	0.6541353383458647
24	RandomForestClassifier	accuracy	50	0.706766917293233
24	RandomForestClassifier	accuracy	50	0.7368421052631579

24	RandomForestClassifier	accuracy	50	0.7293233082706767
24	RandomForestClassifier	accuracy	50	0.7368421052631579
25	RandomForestClassifier	accuracy	5	0.706766917293233
25	RandomForestClassifier	accuracy	5	0.7443609022556391
25	RandomForestClassifier	accuracy	5	0.6992481203007519
25	RandomForestClassifier	accuracy	5	0.706766917293233
25	RandomForestClassifier	accuracy	50	0.7142857142857143
25	RandomForestClassifier	accuracy	50	0.7744360902255639
25	RandomForestClassifier	accuracy	50	0.7368421052631579
25	RandomForestClassifier	accuracy	50	0.7293233082706767
1	RandomForestClassifier	f1	5	0.8019801980198019
1	RandomForestClassifier	f1	5	0.8041237113402062
1	RandomForestClassifier	f1	5	0.8020304568527918
1	RandomForestClassifier	f1	5	0.7942583732057416
1	RandomForestClassifier	f1	50	0.8155339805825244
1	RandomForestClassifier	f1	50	0.8269230769230769
1	RandomForestClassifier	f1	50	0.8301886792452831
1	RandomForestClassifier	f1	50	0.8173076923076923
2	RandomForestClassifier	f1	5	0.8102564102564104
2	RandomForestClassifier	f1	5	0.8118811881188118
2	RandomForestClassifier	f1	5	0.8041237113402062
2	RandomForestClassifier	f1	5	0.8341708542713567
2	RandomForestClassifier	f1	50	0.8383838383838383
2	RandomForestClassifier	f1	50	0.859903381642512
2	RandomForestClassifier	f1	50	0.8500000000000001
2	RandomForestClassifier	f1	50	0.8476190476190476
3	RandomForestClassifier	f1	5	0.7999999999999999
3	RandomForestClassifier	f1	5	0.803921568627451
3	RandomForestClassifier	f1	5	0.7731958762886598
3	RandomForestClassifier	f1	5	0.7715736040609137
3	RandomForestClassifier	f1	50	0.7999999999999999
3	RandomForestClassifier	f1	50	0.7960199004975125
3	RandomForestClassifier	f1	50	0.821256038647343
3	RandomForestClassifier	f1	50	0.7960199004975125
4	RandomForestClassifier	f1	5	0.7724867724867724
4	RandomForestClassifier	f1	5	0.8253968253968254
4	RandomForestClassifier	f1	5	0.7936507936507936
4	RandomForestClassifier	f1	5	0.8
4	RandomForestClassifier	f1	50	0.835820895522388
4	RandomForestClassifier	f1	50	0.8210526315789475
4	RandomForestClassifier	f1	50	0.8556701030927835
4	RandomForestClassifier	f1	50	0.8247422680412373
5	RandomForestClassifier	f1	5	0.7959183673469389

5	RandomForestClassifier	f1	5	0.8167539267015708
5	RandomForestClassifier	f1	5	0.8282828282828283
5	RandomForestClassifier	f1	5	0.7857142857142857
5	RandomForestClassifier	f1	50	0.846938775510204
5	RandomForestClassifier	f1	50	0.8542713567839196
5	RandomForestClassifier	f1	50	0.8383838383838383
5	RandomForestClassifier	f1	50	0.83248730964467
6	RandomForestClassifier	f1	5	0.7979274611398963
6	RandomForestClassifier	f1	5	0.7978142076502731
6	RandomForestClassifier	f1	5	0.7894736842105263
6	RandomForestClassifier	f1	5	0.8307692307692307
6	RandomForestClassifier	f1	50	0.8186528497409327
6	RandomForestClassifier	f1	50	0.845771144278607
6	RandomForestClassifier	f1	50	0.8585858585858587
6	RandomForestClassifier	f1	50	0.8500000000000001
7	RandomForestClassifier	f1	5	0.8020304568527918
7	RandomForestClassifier	f1	5	0.8258706467661693
7	RandomForestClassifier	f1	5	0.7708333333333333
7	RandomForestClassifier	f1	5	0.8181818181818181
7	RandomForestClassifier	f1	50	0.8265306122448979
7	RandomForestClassifier	f1	50	0.8275862068965517
7	RandomForestClassifier	f1	50	0.8181818181818181
7	RandomForestClassifier	f1	50	0.8358208955223881
8	RandomForestClassifier	f1	5	0.8059701492537312
8	RandomForestClassifier	f1	5	0.8144329896907216
8	RandomForestClassifier	f1	5	0.8118811881188119
8	RandomForestClassifier	f1	5	0.7939698492462313
8	RandomForestClassifier	f1	50	0.8301886792452831
8	RandomForestClassifier	f1	50	0.8365384615384615
8	RandomForestClassifier	f1	50	0.8446601941747574
8	RandomForestClassifier	f1	50	0.8446601941747574
9	RandomForestClassifier	f1	5	0.7999999999999999
9	RandomForestClassifier	f1	5	0.7875647668393783
9	RandomForestClassifier	f1	5	0.77720207253886
9	RandomForestClassifier	f1	5	0.7938144329896908
9	RandomForestClassifier	f1	50	0.82
9	RandomForestClassifier	f1	50	0.81
9	RandomForestClassifier	f1	50	0.7920792079207921
9	RandomForestClassifier	f1	50	0.8159203980099504
10	RandomForestClassifier	f1	5	0.7958115183246073
10	RandomForestClassifier	f1	5	0.8341708542713568
10	RandomForestClassifier	f1	5	0.7894736842105262
10	RandomForestClassifier	f1	5	0.8229166666666666

10	RandomForestClassifier	f1	50	0.854368932038835
10	RandomForestClassifier	f1	50	0.8529411764705881
10	RandomForestClassifier	f1	50	0.8461538461538463
10	RandomForestClassifier	f1	50	0.8708133971291866
11	RandomForestClassifier	f1	5	0.839378238341969
11	RandomForestClassifier	f1	5	0.8059701492537313
11	RandomForestClassifier	f1	5	0.8102564102564104
11	RandomForestClassifier	f1	5	0.8125
11	RandomForestClassifier	f1	50	0.8390243902439024
11	RandomForestClassifier	f1	50	0.8442211055276382
11	RandomForestClassifier	f1	50	0.861244019138756
11	RandomForestClassifier	f1	50	0.8855721393034826
12	RandomForestClassifier	f1	5	0.7628865979381443
12	RandomForestClassifier	f1	5	0.7578947368421053
12	RandomForestClassifier	f1	5	0.7812500000000001
12	RandomForestClassifier	f1	5	0.787878787878788
12	RandomForestClassifier	f1	50	0.787878787878788
12	RandomForestClassifier	f1	50	0.8252427184466019
12	RandomForestClassifier	f1	50	0.8078817733990149
12	RandomForestClassifier	f1	50	0.8115942028985508
13	RandomForestClassifier	f1	5	0.8177339901477831
13	RandomForestClassifier	f1	5	0.8159203980099504
13	RandomForestClassifier	f1	5	0.7551020408163266
13	RandomForestClassifier	f1	5	0.77720207253886
13	RandomForestClassifier	f1	50	0.8333333333333334
13	RandomForestClassifier	f1	50	0.8275862068965516
13	RandomForestClassifier	f1	50	0.823529411764706
13	RandomForestClassifier	f1	50	0.8431372549019608
14	RandomForestClassifier	f1	5	0.7979274611398963
14	RandomForestClassifier	f1	5	0.8163265306122449
14	RandomForestClassifier	f1	5	0.806282722513089
14	RandomForestClassifier	f1	5	0.7812499999999999
14	RandomForestClassifier	f1	50	0.8390243902439024
14	RandomForestClassifier	f1	50	0.8333333333333334
14	RandomForestClassifier	f1	50	0.8390243902439024
14	RandomForestClassifier	f1	50	0.8557213930348259
15	RandomForestClassifier	f1	5	0.7938144329896908
15	RandomForestClassifier	f1	5	0.8163265306122449
15	RandomForestClassifier	f1	5	0.8442211055276382
15	RandomForestClassifier	f1	5	0.8307692307692308
15	RandomForestClassifier	f1	50	0.8472906403940887
15	RandomForestClassifier	f1	50	0.848780487804878
15	RandomForestClassifier	f1	50	0.8341708542713568

15	RandomForestClassifier	f1	50	0.8316831683168318
16	RandomForestClassifier	f1	5	0.8080808080808081
16	RandomForestClassifier	f1	5	0.8
16	RandomForestClassifier	f1	5	0.8121827411167513
16	RandomForestClassifier	f1	5	0.8341708542713567
16	RandomForestClassifier	f1	50	0.8195121951219513
16	RandomForestClassifier	f1	50	0.8390243902439024
16	RandomForestClassifier	f1	50	0.8431372549019609
16	RandomForestClassifier	f1	50	0.8472906403940887
17	RandomForestClassifier	f1	5	0.7340425531914893
17	RandomForestClassifier	f1	5	0.8297872340425532
17	RandomForestClassifier	f1	5	0.8297872340425532
17	RandomForestClassifier	f1	5	0.806122448979592
17	RandomForestClassifier	f1	50	0.8585858585858587
17	RandomForestClassifier	f1	50	0.8686868686868686
17	RandomForestClassifier	f1	50	0.8600000000000001
17	RandomForestClassifier	f1	50	0.8600000000000001
18	RandomForestClassifier	f1	5	0.8102564102564103
18	RandomForestClassifier	f1	5	0.8078817733990148
18	RandomForestClassifier	f1	5	0.836734693877551
18	RandomForestClassifier	f1	5	0.7980295566502462
18	RandomForestClassifier	f1	50	0.8613861386138614
18	RandomForestClassifier	f1	50	0.8472906403940887
18	RandomForestClassifier	f1	50	0.83
18	RandomForestClassifier	f1	50	0.8571428571428572
19	RandomForestClassifier	f1	5	0.7979797979797979
19	RandomForestClassifier	f1	5	0.8181818181818182
19	RandomForestClassifier	f1	5	0.7821782178217822
19	RandomForestClassifier	f1	5	0.8059701492537312
19	RandomForestClassifier	f1	50	0.8461538461538463
19	RandomForestClassifier	f1	50	0.8405797101449276
19	RandomForestClassifier	f1	50	0.8490566037735848
19	RandomForestClassifier	f1	50	0.8446601941747574
20	RandomForestClassifier	f1	5	0.7835051546391754
20	RandomForestClassifier	f1	5	0.7351351351351352
20	RandomForestClassifier	f1	5	0.7738693467336683
20	RandomForestClassifier	f1	5	0.7748691099476439
20	RandomForestClassifier	f1	50	0.8241206030150753
20	RandomForestClassifier	f1	50	0.7999999999999999
20	RandomForestClassifier	f1	50	0.8159203980099504
20	RandomForestClassifier	f1	50	0.8349514563106796
21	RandomForestClassifier	f1	5	0.8085106382978723
21	RandomForestClassifier	f1	5	0.787878787878788

21	RandomForestClassifier	f1	5	0.7614213197969544
21	RandomForestClassifier	f1	5	0.8181818181818181
21	RandomForestClassifier	f1	50	0.803921568627451
21	RandomForestClassifier	f1	50	0.8177339901477833
21	RandomForestClassifier	f1	50	0.8177339901477833
21	RandomForestClassifier	f1	50	0.8333333333333334
22	RandomForestClassifier	f1	5	0.8571428571428572
22	RandomForestClassifier	f1	5	0.7939698492462312
22	RandomForestClassifier	f1	5	0.79
22	RandomForestClassifier	f1	5	0.8099999999999999
22	RandomForestClassifier	f1	50	0.8374384236453202
22	RandomForestClassifier	f1	50	0.8446601941747574
22	RandomForestClassifier	f1	50	0.8640776699029127
22	RandomForestClassifier	f1	50	0.8529411764705882
23	RandomForestClassifier	f1	5	0.7575757575757576
23	RandomForestClassifier	f1	5	0.787878787878788
23	RandomForestClassifier	f1	5	0.7872340425531914
23	RandomForestClassifier	f1	5	0.835820895522388
23	RandomForestClassifier	f1	50	0.846938775510204
23	RandomForestClassifier	f1	50	0.8118811881188119
23	RandomForestClassifier	f1	50	0.83248730964467
23	RandomForestClassifier	f1	50	0.8415841584158414
24	RandomForestClassifier	f1	5	0.7513227513227514
24	RandomForestClassifier	f1	5	0.7540983606557377
24	RandomForestClassifier	f1	5	0.7789473684210526
24	RandomForestClassifier	f1	5	0.75
24	RandomForestClassifier	f1	50	0.7958115183246073
24	RandomForestClassifier	f1	50	0.8223350253807107
24	RandomForestClassifier	f1	50	0.82
24	RandomForestClassifier	f1	50	0.8223350253807107
25	RandomForestClassifier	f1	5	0.8059701492537312
25	RandomForestClassifier	f1	5	0.8282828282828283
25	RandomForestClassifier	f1	5	0.801980198019802
25	RandomForestClassifier	f1	5	0.8040201005025127
25	RandomForestClassifier	f1	50	0.8155339805825244
25	RandomForestClassifier	f1	50	0.854368932038835
25	RandomForestClassifier	f1	50	0.832535885167464
25	RandomForestClassifier	f1	50	0.8217821782178217

Table 18: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.7611940298507462
1	SVC	accuracy	linear	0.7611940298507462
1	SVC	accuracy	rbf	0.7611940298507462
1	SVC	accuracy	rbf	0.7611940298507462
1	SVC	accuracy	linear	0.7611940298507462
1	SVC	accuracy	linear	0.7611940298507462
1	SVC	accuracy	rbf	0.7611940298507462
1	SVC	accuracy	rbf	0.7611940298507462
2	SVC	accuracy	linear	0.7985074626865671
2	SVC	accuracy	linear	0.7985074626865671
2	SVC	accuracy	rbf	0.7985074626865671
2	SVC	accuracy	rbf	0.7985074626865671
2	SVC	accuracy	linear	0.7985074626865671
2	SVC	accuracy	linear	0.7985074626865671
2	SVC	accuracy	rbf	0.7985074626865671
2	SVC	accuracy	rbf	0.7985074626865671
3	SVC	accuracy	linear	0.6691729323308271
3	SVC	accuracy	linear	0.6691729323308271
3	SVC	accuracy	rbf	0.7368421052631579
3	SVC	accuracy	rbf	0.7368421052631579
3	SVC	accuracy	linear	0.6691729323308271
3	SVC	accuracy	linear	0.6691729323308271
3	SVC	accuracy	rbf	0.7368421052631579
3	SVC	accuracy	rbf	0.7368421052631579
4	SVC	accuracy	linear	0.7894736842105263
4	SVC	accuracy	linear	0.7894736842105263
4	SVC	accuracy	rbf	0.7593984962406015
4	SVC	accuracy	rbf	0.7593984962406015
4	SVC	accuracy	linear	0.7894736842105263
4	SVC	accuracy	linear	0.7894736842105263
4	SVC	accuracy	rbf	0.7593984962406015
4	SVC	accuracy	rbf	0.7593984962406015
5	SVC	accuracy	linear	0.7142857142857143
5	SVC	accuracy	linear	0.7142857142857143
5	SVC	accuracy	rbf	0.7443609022556391
5	SVC	accuracy	rbf	0.7443609022556391
5	SVC	accuracy	linear	0.7142857142857143
5	SVC	accuracy	linear	0.7142857142857143
5	SVC	accuracy	rbf	0.7443609022556391
5	SVC	accuracy	rbf	0.7443609022556391
6	SVC	accuracy	linear	0.8507462686567164
6	SVC	accuracy	linear	0.8507462686567164

6	SVC	accuracy	rbf	0.7985074626865671
6	SVC	accuracy	rbf	0.7985074626865671
6	SVC	accuracy	linear	0.8507462686567164
6	SVC	accuracy	linear	0.8507462686567164
6	SVC	accuracy	rbf	0.7985074626865671
6	SVC	accuracy	rbf	0.7985074626865671
7	SVC	accuracy	linear	0.7164179104477612
7	SVC	accuracy	linear	0.7164179104477612
7	SVC	accuracy	rbf	0.7014925373134329
7	SVC	accuracy	rbf	0.7014925373134329
7	SVC	accuracy	linear	0.7164179104477612
7	SVC	accuracy	linear	0.7164179104477612
7	SVC	accuracy	rbf	0.7014925373134329
7	SVC	accuracy	rbf	0.7014925373134329
8	SVC	accuracy	linear	0.7218045112781954
8	SVC	accuracy	linear	0.7218045112781954
8	SVC	accuracy	rbf	0.7518796992481203
8	SVC	accuracy	rbf	0.7518796992481203
8	SVC	accuracy	linear	0.7218045112781954
8	SVC	accuracy	linear	0.7218045112781954
8	SVC	accuracy	rbf	0.7518796992481203
8	SVC	accuracy	rbf	0.7518796992481203
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	rbf	0.6766917293233082
9	SVC	accuracy	rbf	0.6766917293233082
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	rbf	0.6766917293233082
9	SVC	accuracy	rbf	0.6766917293233082
10	SVC	accuracy	linear	0.7293233082706767
10	SVC	accuracy	linear	0.7293233082706767
10	SVC	accuracy	rbf	0.7969924812030075
10	SVC	accuracy	rbf	0.7969924812030075
10	SVC	accuracy	linear	0.7293233082706767
10	SVC	accuracy	linear	0.7293233082706767
10	SVC	accuracy	rbf	0.7969924812030075
10	SVC	accuracy	rbf	0.7969924812030075
11	SVC	accuracy	linear	0.7313432835820896
11	SVC	accuracy	linear	0.7313432835820896
11	SVC	accuracy	rbf	0.7238805970149254
11	SVC	accuracy	rbf	0.7238805970149254
11	SVC	accuracy	linear	0.7313432835820896

11	SVC	accuracy	linear	0.7313432835820896
11	SVC	accuracy	rbf	0.7238805970149254
11	SVC	accuracy	rbf	0.7238805970149254
12	SVC	accuracy	linear	0.746268656716418
12	SVC	accuracy	linear	0.746268656716418
12	SVC	accuracy	rbf	0.7014925373134329
12	SVC	accuracy	rbf	0.7014925373134329
12	SVC	accuracy	linear	0.746268656716418
12	SVC	accuracy	linear	0.746268656716418
12	SVC	accuracy	rbf	0.7014925373134329
12	SVC	accuracy	rbf	0.7014925373134329
13	SVC	accuracy	linear	0.7293233082706767
13	SVC	accuracy	linear	0.7293233082706767
13	SVC	accuracy	rbf	0.7218045112781954
13	SVC	accuracy	rbf	0.7218045112781954
13	SVC	accuracy	linear	0.7293233082706767
13	SVC	accuracy	linear	0.7293233082706767
13	SVC	accuracy	rbf	0.7218045112781954
13	SVC	accuracy	rbf	0.7218045112781954
14	SVC	accuracy	linear	0.7518796992481203
14	SVC	accuracy	linear	0.7518796992481203
14	SVC	accuracy	rbf	0.7293233082706767
14	SVC	accuracy	rbf	0.7293233082706767
14	SVC	accuracy	linear	0.7518796992481203
14	SVC	accuracy	linear	0.7518796992481203
14	SVC	accuracy	rbf	0.7293233082706767
14	SVC	accuracy	rbf	0.7293233082706767
15	SVC	accuracy	linear	0.7368421052631579
15	SVC	accuracy	linear	0.7368421052631579
15	SVC	accuracy	rbf	0.7593984962406015
15	SVC	accuracy	rbf	0.7593984962406015
15	SVC	accuracy	linear	0.7368421052631579
15	SVC	accuracy	linear	0.7368421052631579
15	SVC	accuracy	rbf	0.7593984962406015
15	SVC	accuracy	rbf	0.7593984962406015
16	SVC	accuracy	linear	0.7761194029850746
16	SVC	accuracy	linear	0.7761194029850746
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	linear	0.7761194029850746
16	SVC	accuracy	linear	0.7761194029850746
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	rbf	0.7388059701492538

17	SVC	accuracy	linear	0.753731343283582
17	SVC	accuracy	linear	0.753731343283582
17	SVC	accuracy	rbf	0.7835820895522388
17	SVC	accuracy	rbf	0.7835820895522388
17	SVC	accuracy	linear	0.753731343283582
17	SVC	accuracy	linear	0.753731343283582
17	SVC	accuracy	rbf	0.7835820895522388
17	SVC	accuracy	rbf	0.7835820895522388
18	SVC	accuracy	linear	0.7894736842105263
18	SVC	accuracy	linear	0.7894736842105263
18	SVC	accuracy	rbf	0.7593984962406015
18	SVC	accuracy	rbf	0.7593984962406015
18	SVC	accuracy	linear	0.7894736842105263
18	SVC	accuracy	linear	0.7894736842105263
18	SVC	accuracy	rbf	0.7593984962406015
18	SVC	accuracy	rbf	0.7593984962406015
19	SVC	accuracy	linear	0.7744360902255639
19	SVC	accuracy	linear	0.7744360902255639
19	SVC	accuracy	rbf	0.7669172932330827
19	SVC	accuracy	rbf	0.7669172932330827
19	SVC	accuracy	linear	0.7744360902255639
19	SVC	accuracy	linear	0.7744360902255639
19	SVC	accuracy	rbf	0.7669172932330827
19	SVC	accuracy	rbf	0.7669172932330827
20	SVC	accuracy	linear	0.706766917293233
20	SVC	accuracy	linear	0.706766917293233
20	SVC	accuracy	rbf	0.7368421052631579
20	SVC	accuracy	rbf	0.7368421052631579
20	SVC	accuracy	linear	0.706766917293233
20	SVC	accuracy	linear	0.706766917293233
20	SVC	accuracy	rbf	0.7368421052631579
20	SVC	accuracy	rbf	0.7368421052631579
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	rbf	0.7611940298507462
21	SVC	accuracy	rbf	0.7611940298507462
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	rbf	0.7611940298507462
21	SVC	accuracy	rbf	0.7611940298507462
22	SVC	accuracy	linear	0.7686567164179104
22	SVC	accuracy	linear	0.7686567164179104
22	SVC	accuracy	rbf	0.7835820895522388

22	SVC	accuracy	rbf	0.7835820895522388
22	SVC	accuracy	linear	0.7686567164179104
22	SVC	accuracy	linear	0.7686567164179104
22	SVC	accuracy	rbf	0.7835820895522388
22	SVC	accuracy	rbf	0.7835820895522388
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	rbf	0.7293233082706767
23	SVC	accuracy	rbf	0.7293233082706767
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	rbf	0.7293233082706767
23	SVC	accuracy	rbf	0.7293233082706767
24	SVC	accuracy	linear	0.7518796992481203
24	SVC	accuracy	linear	0.7518796992481203
24	SVC	accuracy	rbf	0.7744360902255639
24	SVC	accuracy	rbf	0.7744360902255639
24	SVC	accuracy	linear	0.7518796992481203
24	SVC	accuracy	linear	0.7518796992481203
24	SVC	accuracy	rbf	0.7744360902255639
24	SVC	accuracy	rbf	0.7744360902255639
25	SVC	accuracy	linear	0.7142857142857143
25	SVC	accuracy	linear	0.7142857142857143
25	SVC	accuracy	rbf	0.7443609022556391
25	SVC	accuracy	rbf	0.7443609022556391
25	SVC	accuracy	linear	0.7142857142857143
25	SVC	accuracy	linear	0.7142857142857143
25	SVC	accuracy	rbf	0.7443609022556391
25	SVC	accuracy	rbf	0.7443609022556391
1	SVC	f1	linear	0.8350515463917526
1	SVC	f1	linear	0.8350515463917526
1	SVC	f1	rbf	0.8461538461538461
1	SVC	f1	rbf	0.8461538461538461
1	SVC	f1	linear	0.8350515463917526
1	SVC	f1	linear	0.8350515463917526
1	SVC	f1	rbf	0.8461538461538461
1	SVC	f1	rbf	0.8461538461538461
2	SVC	f1	linear	0.8629441624365481
2	SVC	f1	linear	0.8629441624365481
2	SVC	f1	rbf	0.8695652173913044
2	SVC	f1	rbf	0.8695652173913044
2	SVC	f1	linear	0.8629441624365481
2	SVC	f1	linear	0.8629441624365481

2	SVC	f1	rbf	0.8695652173913044
2	SVC	f1	rbf	0.8695652173913044
3	SVC	f1	linear	0.7708333333333333
3	SVC	f1	linear	0.7708333333333333
3	SVC	f1	rbf	0.8275862068965516
3	SVC	f1	rbf	0.8275862068965516
3	SVC	f1	linear	0.7708333333333333
3	SVC	f1	linear	0.7708333333333333
3	SVC	f1	rbf	0.8275862068965516
3	SVC	f1	rbf	0.8275862068965516
4	SVC	f1	linear	0.8494623655913978
4	SVC	f1	linear	0.8494623655913978
4	SVC	f1	rbf	0.836734693877551
4	SVC	f1	rbf	0.836734693877551
4	SVC	f1	linear	0.8494623655913978
4	SVC	f1	linear	0.8494623655913978
4	SVC	f1	rbf	0.836734693877551
4	SVC	f1	rbf	0.836734693877551
5	SVC	f1	linear	0.7956989247311826
5	SVC	f1	linear	0.7956989247311826
5	SVC	f1	rbf	0.83
5	SVC	f1	rbf	0.83
5	SVC	f1	linear	0.7956989247311826
5	SVC	f1	linear	0.7956989247311826
5	SVC	f1	rbf	0.83
5	SVC	f1	rbf	0.83
6	SVC	f1	linear	0.8936170212765957
6	SVC	f1	linear	0.8936170212765957
6	SVC	f1	rbf	0.8656716417910447
6	SVC	f1	rbf	0.8656716417910447
6	SVC	f1	linear	0.8936170212765957
6	SVC	f1	linear	0.8936170212765957
6	SVC	f1	rbf	0.8656716417910447
6	SVC	f1	rbf	0.8656716417910447
7	SVC	f1	linear	0.7978723404255319
7	SVC	f1	linear	0.7978723404255319
7	SVC	f1	rbf	0.7959183673469387
7	SVC	f1	rbf	0.7959183673469387
7	SVC	f1	linear	0.7978723404255319
7	SVC	f1	linear	0.7978723404255319
7	SVC	f1	rbf	0.7959183673469387
7	SVC	f1	rbf	0.7959183673469387
8	SVC	f1	linear	0.8159203980099504

8	SVC	f1	linear	0.8159203980099504
8	SVC	f1	rbf	0.8374384236453202
8	SVC	f1	rbf	0.8374384236453202
8	SVC	f1	linear	0.8159203980099504
8	SVC	f1	linear	0.8159203980099504
8	SVC	f1	rbf	0.8374384236453202
8	SVC	f1	rbf	0.8374384236453202
9	SVC	f1	linear	0.8167539267015708
9	SVC	f1	linear	0.8167539267015708
9	SVC	f1	rbf	0.7860696517412935
9	SVC	f1	rbf	0.7860696517412935
9	SVC	f1	linear	0.8167539267015708
9	SVC	f1	linear	0.8167539267015708
9	SVC	f1	rbf	0.7860696517412935
9	SVC	f1	rbf	0.7860696517412935
10	SVC	f1	linear	0.8163265306122449
10	SVC	f1	linear	0.8163265306122449
10	SVC	f1	rbf	0.8682926829268293
10	SVC	f1	rbf	0.8682926829268293
10	SVC	f1	linear	0.8163265306122449
10	SVC	f1	linear	0.8163265306122449
10	SVC	f1	rbf	0.8682926829268293
10	SVC	f1	rbf	0.8682926829268293
11	SVC	f1	linear	0.8105263157894737
11	SVC	f1	linear	0.8105263157894737
11	SVC	f1	rbf	0.8195121951219513
11	SVC	f1	rbf	0.8195121951219513
11	SVC	f1	linear	0.8105263157894737
11	SVC	f1	linear	0.8105263157894737
11	SVC	f1	rbf	0.8195121951219513
11	SVC	f1	rbf	0.8195121951219513
12	SVC	f1	linear	0.8316831683168316
12	SVC	f1	linear	0.8316831683168316
12	SVC	f1	rbf	0.8019801980198019
12	SVC	f1	rbf	0.8019801980198019
12	SVC	f1	linear	0.8316831683168316
12	SVC	f1	linear	0.8316831683168316
12	SVC	f1	rbf	0.8019801980198019
12	SVC	f1	rbf	0.8019801980198019
13	SVC	f1	linear	0.8125
13	SVC	f1	linear	0.8125
13	SVC	f1	rbf	0.8177339901477831
13	SVC	f1	rbf	0.8177339901477831

13	SVC	f1	linear	0.8125
13	SVC	f1	linear	0.8125
13	SVC	f1	rbf	0.8177339901477831
13	SVC	f1	rbf	0.8177339901477831
14	SVC	f1	linear	0.8272251308900525
14	SVC	f1	linear	0.8272251308900525
14	SVC	f1	rbf	0.8217821782178217
14	SVC	f1	rbf	0.8217821782178217
14	SVC	f1	linear	0.8272251308900525
14	SVC	f1	linear	0.8272251308900525
14	SVC	f1	rbf	0.8217821782178217
14	SVC	f1	rbf	0.8217821782178217
15	SVC	f1	linear	0.8205128205128205
15	SVC	f1	linear	0.8205128205128205
15	SVC	f1	rbf	0.8446601941747574
15	SVC	f1	rbf	0.8446601941747574
15	SVC	f1	linear	0.8205128205128205
15	SVC	f1	linear	0.8205128205128205
15	SVC	f1	rbf	0.8446601941747574
15	SVC	f1	rbf	0.8446601941747574
16	SVC	f1	linear	0.8404255319148938
16	SVC	f1	linear	0.8404255319148938
16	SVC	f1	rbf	0.8275862068965517
16	SVC	f1	rbf	0.8275862068965517
16	SVC	f1	linear	0.8404255319148938
16	SVC	f1	linear	0.8404255319148938
16	SVC	f1	rbf	0.8275862068965517
16	SVC	f1	rbf	0.8275862068965517
17	SVC	f1	linear	0.8290155440414508
17	SVC	f1	linear	0.8290155440414508
17	SVC	f1	rbf	0.8512820512820514
17	SVC	f1	rbf	0.8512820512820514
17	SVC	f1	linear	0.8290155440414508
17	SVC	f1	linear	0.8290155440414508
17	SVC	f1	rbf	0.8512820512820514
17	SVC	f1	rbf	0.8512820512820514
18	SVC	f1	linear	0.8526315789473684
18	SVC	f1	linear	0.8526315789473684
18	SVC	f1	rbf	0.8431372549019608
18	SVC	f1	rbf	0.8431372549019608
18	SVC	f1	linear	0.8526315789473684
18	SVC	f1	linear	0.8526315789473684
18	SVC	f1	rbf	0.8431372549019608

18	SVC	f1	rbf	0.8431372549019608
19	SVC	f1	linear	0.8500000000000001
19	SVC	f1	linear	0.8500000000000001
19	SVC	f1	rbf	0.8502415458937198
19	SVC	f1	rbf	0.8502415458937198
19	SVC	f1	linear	0.8500000000000001
19	SVC	f1	linear	0.8500000000000001
19	SVC	f1	rbf	0.8502415458937198
19	SVC	f1	rbf	0.8502415458937198
20	SVC	f1	linear	0.7979274611398963
20	SVC	f1	linear	0.7979274611398963
20	SVC	f1	rbf	0.8258706467661692
20	SVC	f1	rbf	0.8258706467661692
20	SVC	f1	linear	0.7979274611398963
20	SVC	f1	linear	0.7979274611398963
20	SVC	f1	rbf	0.8258706467661692
20	SVC	f1	rbf	0.8258706467661692
21	SVC	f1	linear	0.8300000000000001
21	SVC	f1	linear	0.8300000000000001
21	SVC	f1	rbf	0.8461538461538461
21	SVC	f1	rbf	0.8461538461538461
21	SVC	f1	linear	0.8300000000000001
21	SVC	f1	linear	0.8300000000000001
21	SVC	f1	rbf	0.8461538461538461
21	SVC	f1	rbf	0.8461538461538461
22	SVC	f1	linear	0.839378238341969
22	SVC	f1	linear	0.839378238341969
22	SVC	f1	rbf	0.859903381642512
22	SVC	f1	rbf	0.859903381642512
22	SVC	f1	linear	0.839378238341969
22	SVC	f1	linear	0.839378238341969
22	SVC	f1	rbf	0.859903381642512
22	SVC	f1	rbf	0.859903381642512
23	SVC	f1	linear	0.8125
23	SVC	f1	linear	0.8125
23	SVC	f1	rbf	0.8217821782178217
23	SVC	f1	rbf	0.8217821782178217
23	SVC	f1	linear	0.8125
23	SVC	f1	linear	0.8125
23	SVC	f1	rbf	0.8217821782178217
23	SVC	f1	rbf	0.8217821782178217
24	SVC	f1	linear	0.8176795580110496
24	SVC	f1	linear	0.8176795580110496

24	SVC	f1	rbf	0.84375
24	SVC	f1	rbf	0.84375
24	SVC	f1	linear	0.8176795580110496
24	SVC	f1	linear	0.8176795580110496
24	SVC	f1	rbf	0.84375
24	SVC	f1	rbf	0.84375
25	SVC	f1	linear	0.8020833333333334
25	SVC	f1	linear	0.8020833333333334
25	SVC	f1	rbf	0.8333333333333334
25	SVC	f1	rbf	0.8333333333333334
25	SVC	f1	linear	0.8020833333333334
25	SVC	f1	linear	0.8020833333333334
25	SVC	f1	rbf	0.8333333333333334
25	SVC	f1	rbf	0.8333333333333334

Table 19: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.664179104477612
1	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
1	DecisionTreeClassifier	accuracy	gini	0.6194029850746269
1	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
1	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
1	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
1	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
1	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
2	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
2	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
2	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
2	DecisionTreeClassifier	accuracy	entropy	0.7388059701492538
2	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
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2	DecisionTreeClassifier	accuracy	gini	0.7388059701492538
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3	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
3	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
3	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
3	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
3	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
3	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
3	DecisionTreeClassifier	accuracy	gini	0.6691729323308271

3	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
4	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
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5	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
5	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
5	DecisionTreeClassifier	accuracy	gini	0.706766917293233
5	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
5	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
5	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
5	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
5	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
6	DecisionTreeClassifier	accuracy	gini	0.6194029850746269
6	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
6	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
6	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
6	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
6	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
6	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
6	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
7	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
7	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
7	DecisionTreeClassifier	accuracy	gini	0.6194029850746269
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7	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
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7	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
8	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
8	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
8	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
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8	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
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9	DecisionTreeClassifier	accuracy	gini	0.706766917293233
9	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143

9	DecisionTreeClassifier	accuracy	gini	0.706766917293233
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10	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
10	DecisionTreeClassifier	accuracy	gini	0.7443609022556391
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11	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
11	DecisionTreeClassifier	accuracy	entropy	0.753731343283582
11	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
11	DecisionTreeClassifier	accuracy	entropy	0.7686567164179104
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11	DecisionTreeClassifier	accuracy	entropy	0.753731343283582
12	DecisionTreeClassifier	accuracy	gini	0.664179104477612
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13	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
13	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
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17	DecisionTreeClassifier	accuracy	entropy	0.7313432835820896
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1	DecisionTreeClassifier	f1	gini	0.7499999999999999
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2	DecisionTreeClassifier	f1	gini	0.7741935483870968
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3	DecisionTreeClassifier	f1	gini	0.7362637362637361
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11	DecisionTreeClassifier	f1	entropy	0.8333333333333334
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16	DecisionTreeClassifier	f1	gini	0.7403314917127071
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18	DecisionTreeClassifier	f1	gini	0.7640449438202247
18	DecisionTreeClassifier	f1	entropy	0.7582417582417582
18	DecisionTreeClassifier	f1	gini	0.768361581920904
18	DecisionTreeClassifier	f1	entropy	0.8021978021978021
18	DecisionTreeClassifier	f1	gini	0.7709497206703911
18	DecisionTreeClassifier	f1	entropy	0.7582417582417582
18	DecisionTreeClassifier	f1	gini	0.7650273224043715
18	DecisionTreeClassifier	f1	entropy	0.7650273224043715
19	DecisionTreeClassifier	f1	gini	0.7528089887640449
19	DecisionTreeClassifier	f1	entropy	0.7540983606557377
19	DecisionTreeClassifier	f1	gini	0.7159090909090909
19	DecisionTreeClassifier	f1	entropy	0.7459459459459459
19	DecisionTreeClassifier	f1	gini	0.7159090909090909
19	DecisionTreeClassifier	f1	entropy	0.7182320441988951
19	DecisionTreeClassifier	f1	gini	0.7431693989071038
19	DecisionTreeClassifier	f1	entropy	0.7333333333333333
20	DecisionTreeClassifier	f1	gini	0.7182320441988951
20	DecisionTreeClassifier	f1	entropy	0.7231638418079096
20	DecisionTreeClassifier	f1	gini	0.7282608695652175
20	DecisionTreeClassifier	f1	entropy	0.7428571428571429
20	DecisionTreeClassifier	f1	gini	0.7322404371584699
20	DecisionTreeClassifier	f1	entropy	0.7624309392265195
20	DecisionTreeClassifier	f1	gini	0.7431693989071038
20	DecisionTreeClassifier	f1	entropy	0.7444444444444445
21	DecisionTreeClassifier	f1	gini	0.7794871794871795
21	DecisionTreeClassifier	f1	entropy	0.7826086956521738
21	DecisionTreeClassifier	f1	gini	0.7959183673469387
21	DecisionTreeClassifier	f1	entropy	0.7734806629834253
21	DecisionTreeClassifier	f1	gini	0.7643979057591621
21	DecisionTreeClassifier	f1	entropy	0.7891891891891892
21	DecisionTreeClassifier	f1	gini	0.7916666666666665

21	DecisionTreeClassifier	f1	entropy	0.7692307692307692
22	DecisionTreeClassifier	f1	gini	0.806122448979592
22	DecisionTreeClassifier	f1	entropy	0.8085106382978723
22	DecisionTreeClassifier	f1	gini	0.8186528497409327
22	DecisionTreeClassifier	f1	entropy	0.8315789473684212
22	DecisionTreeClassifier	f1	gini	0.8163265306122448
22	DecisionTreeClassifier	f1	entropy	0.806282722513089
22	DecisionTreeClassifier	f1	gini	0.8020833333333333
22	DecisionTreeClassifier	f1	entropy	0.8021390374331551
23	DecisionTreeClassifier	f1	gini	0.8066298342541436
23	DecisionTreeClassifier	f1	entropy	0.7752808988764045
23	DecisionTreeClassifier	f1	gini	0.819672131147541
23	DecisionTreeClassifier	f1	entropy	0.7759562841530053
23	DecisionTreeClassifier	f1	gini	0.8172043010752688
23	DecisionTreeClassifier	f1	entropy	0.7752808988764045
23	DecisionTreeClassifier	f1	gini	0.8043478260869565
23	DecisionTreeClassifier	f1	entropy	0.7692307692307693
24	DecisionTreeClassifier	f1	gini	0.7634408602150536
24	DecisionTreeClassifier	f1	entropy	0.7333333333333333
24	DecisionTreeClassifier	f1	gini	0.7340425531914895
24	DecisionTreeClassifier	f1	entropy	0.7979274611398963
24	DecisionTreeClassifier	f1	gini	0.7032967032967034
24	DecisionTreeClassifier	f1	entropy	0.8144329896907216
24	DecisionTreeClassifier	f1	gini	0.7182320441988951
24	DecisionTreeClassifier	f1	entropy	0.7894736842105262
25	DecisionTreeClassifier	f1	gini	0.77720207253886
25	DecisionTreeClassifier	f1	entropy	0.8102564102564103
25	DecisionTreeClassifier	f1	gini	0.7875647668393783
25	DecisionTreeClassifier	f1	entropy	0.7918781725888324
25	DecisionTreeClassifier	f1	gini	0.7938144329896908
25	DecisionTreeClassifier	f1	entropy	0.7999999999999999
25	DecisionTreeClassifier	f1	gini	0.7830687830687831
25	DecisionTreeClassifier	f1	entropy	0.7999999999999999

Table 20: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.6716417910447762
1	RandomForestClassifier	accuracy	5	0.7164179104477612
1	RandomForestClassifier	accuracy	5	0.7313432835820896
1	RandomForestClassifier	accuracy	5	0.7089552238805971

1	RandomForestClassifier	accuracy	50	0.7761194029850746
1	RandomForestClassifier	accuracy	50	0.7761194029850746
1	RandomForestClassifier	accuracy	50	0.7835820895522388
1	RandomForestClassifier	accuracy	50	0.7835820895522388
2	RandomForestClassifier	accuracy	5	0.706766917293233
2	RandomForestClassifier	accuracy	5	0.6992481203007519
2	RandomForestClassifier	accuracy	5	0.7142857142857143
2	RandomForestClassifier	accuracy	5	0.7218045112781954
2	RandomForestClassifier	accuracy	50	0.7142857142857143
2	RandomForestClassifier	accuracy	50	0.7368421052631579
2	RandomForestClassifier	accuracy	50	0.7368421052631579
2	RandomForestClassifier	accuracy	50	0.7142857142857143
3	RandomForestClassifier	accuracy	5	0.6992481203007519
3	RandomForestClassifier	accuracy	5	0.6917293233082706
3	RandomForestClassifier	accuracy	5	0.6842105263157895
3	RandomForestClassifier	accuracy	5	0.706766917293233
3	RandomForestClassifier	accuracy	50	0.7894736842105263
3	RandomForestClassifier	accuracy	50	0.7443609022556391
3	RandomForestClassifier	accuracy	50	0.7368421052631579
3	RandomForestClassifier	accuracy	50	0.7518796992481203
4	RandomForestClassifier	accuracy	5	0.706766917293233
4	RandomForestClassifier	accuracy	5	0.706766917293233
4	RandomForestClassifier	accuracy	5	0.7142857142857143
4	RandomForestClassifier	accuracy	5	0.6917293233082706
4	RandomForestClassifier	accuracy	50	0.8045112781954887
4	RandomForestClassifier	accuracy	50	0.7368421052631579
4	RandomForestClassifier	accuracy	50	0.7744360902255639
4	RandomForestClassifier	accuracy	50	0.7669172932330827
5	RandomForestClassifier	accuracy	5	0.7293233082706767
5	RandomForestClassifier	accuracy	5	0.6917293233082706
5	RandomForestClassifier	accuracy	5	0.6541353383458647
5	RandomForestClassifier	accuracy	5	0.6842105263157895
5	RandomForestClassifier	accuracy	50	0.7443609022556391
5	RandomForestClassifier	accuracy	50	0.706766917293233
5	RandomForestClassifier	accuracy	50	0.7368421052631579
5	RandomForestClassifier	accuracy	50	0.6992481203007519
6	RandomForestClassifier	accuracy	5	0.7761194029850746
6	RandomForestClassifier	accuracy	5	0.7164179104477612
6	RandomForestClassifier	accuracy	5	0.7089552238805971
6	RandomForestClassifier	accuracy	5	0.7313432835820896
6	RandomForestClassifier	accuracy	50	0.7761194029850746
6	RandomForestClassifier	accuracy	50	0.7313432835820896
6	RandomForestClassifier	accuracy	50	0.7164179104477612

6	RandomForestClassifier	accuracy	50	0.746268656716418
7	RandomForestClassifier	accuracy	5	0.706766917293233
7	RandomForestClassifier	accuracy	5	0.6541353383458647
7	RandomForestClassifier	accuracy	5	0.6390977443609023
7	RandomForestClassifier	accuracy	5	0.7293233082706767
7	RandomForestClassifier	accuracy	50	0.7744360902255639
7	RandomForestClassifier	accuracy	50	0.7218045112781954
7	RandomForestClassifier	accuracy	50	0.7593984962406015
7	RandomForestClassifier	accuracy	50	0.7368421052631579
8	RandomForestClassifier	accuracy	5	0.6691729323308271
8	RandomForestClassifier	accuracy	5	0.706766917293233
8	RandomForestClassifier	accuracy	5	0.6616541353383458
8	RandomForestClassifier	accuracy	5	0.6390977443609023
8	RandomForestClassifier	accuracy	50	0.7293233082706767
8	RandomForestClassifier	accuracy	50	0.6992481203007519
8	RandomForestClassifier	accuracy	50	0.7142857142857143
8	RandomForestClassifier	accuracy	50	0.7443609022556391
9	RandomForestClassifier	accuracy	5	0.7969924812030075
9	RandomForestClassifier	accuracy	5	0.7142857142857143
9	RandomForestClassifier	accuracy	5	0.7293233082706767
9	RandomForestClassifier	accuracy	5	0.7368421052631579
9	RandomForestClassifier	accuracy	50	0.7744360902255639
9	RandomForestClassifier	accuracy	50	0.7593984962406015
9	RandomForestClassifier	accuracy	50	0.7518796992481203
9	RandomForestClassifier	accuracy	50	0.7518796992481203
10	RandomForestClassifier	accuracy	5	0.6917293233082706
10	RandomForestClassifier	accuracy	5	0.6766917293233082
10	RandomForestClassifier	accuracy	5	0.6917293233082706
10	RandomForestClassifier	accuracy	5	0.7293233082706767
10	RandomForestClassifier	accuracy	50	0.706766917293233
10	RandomForestClassifier	accuracy	50	0.7218045112781954
10	RandomForestClassifier	accuracy	50	0.7593984962406015
10	RandomForestClassifier	accuracy	50	0.7293233082706767
11	RandomForestClassifier	accuracy	5	0.7238805970149254
11	RandomForestClassifier	accuracy	5	0.6194029850746269
11	RandomForestClassifier	accuracy	5	0.7089552238805971
11	RandomForestClassifier	accuracy	5	0.7014925373134329
11	RandomForestClassifier	accuracy	50	0.8059701492537313
11	RandomForestClassifier	accuracy	50	0.7761194029850746
11	RandomForestClassifier	accuracy	50	0.7761194029850746
11	RandomForestClassifier	accuracy	50	0.7835820895522388
12	RandomForestClassifier	accuracy	5	0.6541353383458647
12	RandomForestClassifier	accuracy	5	0.6842105263157895

12	RandomForestClassifier	accuracy	5	0.6691729323308271
12	RandomForestClassifier	accuracy	5	0.6992481203007519
12	RandomForestClassifier	accuracy	50	0.7142857142857143
12	RandomForestClassifier	accuracy	50	0.6917293233082706
12	RandomForestClassifier	accuracy	50	0.7142857142857143
12	RandomForestClassifier	accuracy	50	0.7142857142857143
13	RandomForestClassifier	accuracy	5	0.7142857142857143
13	RandomForestClassifier	accuracy	5	0.6917293233082706
13	RandomForestClassifier	accuracy	5	0.706766917293233
13	RandomForestClassifier	accuracy	5	0.7218045112781954
13	RandomForestClassifier	accuracy	50	0.7593984962406015
13	RandomForestClassifier	accuracy	50	0.7443609022556391
13	RandomForestClassifier	accuracy	50	0.7368421052631579
13	RandomForestClassifier	accuracy	50	0.706766917293233
14	RandomForestClassifier	accuracy	5	0.6917293233082706
14	RandomForestClassifier	accuracy	5	0.6541353383458647
14	RandomForestClassifier	accuracy	5	0.7142857142857143
14	RandomForestClassifier	accuracy	5	0.6842105263157895
14	RandomForestClassifier	accuracy	50	0.7744360902255639
14	RandomForestClassifier	accuracy	50	0.7368421052631579
14	RandomForestClassifier	accuracy	50	0.7744360902255639
14	RandomForestClassifier	accuracy	50	0.7443609022556391
15	RandomForestClassifier	accuracy	5	0.6917293233082706
15	RandomForestClassifier	accuracy	5	0.6691729323308271
15	RandomForestClassifier	accuracy	5	0.6691729323308271
15	RandomForestClassifier	accuracy	5	0.706766917293233
15	RandomForestClassifier	accuracy	50	0.7443609022556391
15	RandomForestClassifier	accuracy	50	0.706766917293233
15	RandomForestClassifier	accuracy	50	0.706766917293233
15	RandomForestClassifier	accuracy	50	0.7819548872180451
16	RandomForestClassifier	accuracy	5	0.6940298507462687
16	RandomForestClassifier	accuracy	5	0.6940298507462687
16	RandomForestClassifier	accuracy	5	0.746268656716418
16	RandomForestClassifier	accuracy	5	0.7164179104477612
16	RandomForestClassifier	accuracy	50	0.7388059701492538
16	RandomForestClassifier	accuracy	50	0.746268656716418
16	RandomForestClassifier	accuracy	50	0.746268656716418
16	RandomForestClassifier	accuracy	50	0.7388059701492538
17	RandomForestClassifier	accuracy	5	0.6917293233082706
17	RandomForestClassifier	accuracy	5	0.6842105263157895
17	RandomForestClassifier	accuracy	5	0.6917293233082706
17	RandomForestClassifier	accuracy	5	0.6917293233082706
17	RandomForestClassifier	accuracy	50	0.7293233082706767

17	RandomForestClassifier	accuracy	50	0.7443609022556391
17	RandomForestClassifier	accuracy	50	0.7593984962406015
17	RandomForestClassifier	accuracy	50	0.7443609022556391
18	RandomForestClassifier	accuracy	5	0.706766917293233
18	RandomForestClassifier	accuracy	5	0.7443609022556391
18	RandomForestClassifier	accuracy	5	0.7518796992481203
18	RandomForestClassifier	accuracy	5	0.6466165413533834
18	RandomForestClassifier	accuracy	50	0.6992481203007519
18	RandomForestClassifier	accuracy	50	0.7443609022556391
18	RandomForestClassifier	accuracy	50	0.6917293233082706
18	RandomForestClassifier	accuracy	50	0.7518796992481203
19	RandomForestClassifier	accuracy	5	0.706766917293233
19	RandomForestClassifier	accuracy	5	0.7744360902255639
19	RandomForestClassifier	accuracy	5	0.7443609022556391
19	RandomForestClassifier	accuracy	5	0.7368421052631579
19	RandomForestClassifier	accuracy	50	0.7368421052631579
19	RandomForestClassifier	accuracy	50	0.7518796992481203
19	RandomForestClassifier	accuracy	50	0.7669172932330827
19	RandomForestClassifier	accuracy	50	0.7669172932330827
20	RandomForestClassifier	accuracy	5	0.706766917293233
20	RandomForestClassifier	accuracy	5	0.6842105263157895
20	RandomForestClassifier	accuracy	5	0.5939849624060151
20	RandomForestClassifier	accuracy	5	0.7142857142857143
20	RandomForestClassifier	accuracy	50	0.7819548872180451
20	RandomForestClassifier	accuracy	50	0.7593984962406015
20	RandomForestClassifier	accuracy	50	0.6992481203007519
20	RandomForestClassifier	accuracy	50	0.7518796992481203
21	RandomForestClassifier	accuracy	5	0.6791044776119403
21	RandomForestClassifier	accuracy	5	0.6791044776119403
21	RandomForestClassifier	accuracy	5	0.6716417910447762
21	RandomForestClassifier	accuracy	5	0.6865671641791045
21	RandomForestClassifier	accuracy	50	0.7089552238805971
21	RandomForestClassifier	accuracy	50	0.7238805970149254
21	RandomForestClassifier	accuracy	50	0.7238805970149254
21	RandomForestClassifier	accuracy	50	0.7388059701492538
22	RandomForestClassifier	accuracy	5	0.7218045112781954
22	RandomForestClassifier	accuracy	5	0.7443609022556391
22	RandomForestClassifier	accuracy	5	0.7669172932330827
22	RandomForestClassifier	accuracy	5	0.6992481203007519
22	RandomForestClassifier	accuracy	50	0.7819548872180451
22	RandomForestClassifier	accuracy	50	0.7894736842105263
22	RandomForestClassifier	accuracy	50	0.7669172932330827
22	RandomForestClassifier	accuracy	50	0.7593984962406015

23	RandomForestClassifier	accuracy	5	0.7293233082706767
23	RandomForestClassifier	accuracy	5	0.7142857142857143
23	RandomForestClassifier	accuracy	5	0.7142857142857143
23	RandomForestClassifier	accuracy	5	0.7443609022556391
23	RandomForestClassifier	accuracy	50	0.7669172932330827
23	RandomForestClassifier	accuracy	50	0.7293233082706767
23	RandomForestClassifier	accuracy	50	0.7142857142857143
23	RandomForestClassifier	accuracy	50	0.706766917293233
24	RandomForestClassifier	accuracy	5	0.7293233082706767
24	RandomForestClassifier	accuracy	5	0.6390977443609023
24	RandomForestClassifier	accuracy	5	0.7218045112781954
24	RandomForestClassifier	accuracy	5	0.706766917293233
24	RandomForestClassifier	accuracy	50	0.7218045112781954
24	RandomForestClassifier	accuracy	50	0.7368421052631579
24	RandomForestClassifier	accuracy	50	0.6766917293233082
24	RandomForestClassifier	accuracy	50	0.7142857142857143
25	RandomForestClassifier	accuracy	5	0.6917293233082706
25	RandomForestClassifier	accuracy	5	0.7142857142857143
25	RandomForestClassifier	accuracy	5	0.6842105263157895
25	RandomForestClassifier	accuracy	5	0.7443609022556391
25	RandomForestClassifier	accuracy	50	0.7669172932330827
25	RandomForestClassifier	accuracy	50	0.7744360902255639
25	RandomForestClassifier	accuracy	50	0.7894736842105263
25	RandomForestClassifier	accuracy	50	0.7593984962406015
1	RandomForestClassifier	f1	5	0.7821782178217823
1	RandomForestClassifier	f1	5	0.806122448979592
1	RandomForestClassifier	f1	5	0.8200000000000001
1	RandomForestClassifier	f1	5	0.8040201005025126
1	RandomForestClassifier	f1	50	0.8571428571428572
1	RandomForestClassifier	f1	50	0.8584905660377358
1	RandomForestClassifier	f1	50	0.861244019138756
1	RandomForestClassifier	f1	50	0.861244019138756
2	RandomForestClassifier	f1	5	0.7999999999999999
2	RandomForestClassifier	f1	5	0.801980198019802
2	RandomForestClassifier	f1	5	0.8118811881188119
2	RandomForestClassifier	f1	5	0.8159203980099504
2	RandomForestClassifier	f1	50	0.8173076923076923
2	RandomForestClassifier	f1	50	0.8258706467661692
2	RandomForestClassifier	f1	50	0.832535885167464
2	RandomForestClassifier	f1	50	0.820754716981132
3	RandomForestClassifier	f1	5	0.7959183673469389
3	RandomForestClassifier	f1	5	0.7807486631016043
3	RandomForestClassifier	f1	5	0.7812499999999999

3	RandomForestClassifier	f1	5	0.7979274611398963
3	RandomForestClassifier	f1	50	0.86
3	RandomForestClassifier	f1	50	0.8282828282828283
3	RandomForestClassifier	f1	50	0.8241206030150753
3	RandomForestClassifier	f1	50	0.835820895522388
4	RandomForestClassifier	f1	5	0.7999999999999999
4	RandomForestClassifier	f1	5	0.7999999999999999
4	RandomForestClassifier	f1	5	0.8061224489795918
4	RandomForestClassifier	f1	5	0.7830687830687831
4	RandomForestClassifier	f1	50	0.8659793814432989
4	RandomForestClassifier	f1	50	0.8241206030150753
4	RandomForestClassifier	f1	50	0.8484848484848486
4	RandomForestClassifier	f1	50	0.8457711442786069
5	RandomForestClassifier	f1	5	0.8144329896907216
5	RandomForestClassifier	f1	5	0.7897435897435897
5	RandomForestClassifier	f1	5	0.7722772277227723
5	RandomForestClassifier	f1	5	0.7857142857142857
5	RandomForestClassifier	f1	50	0.8349514563106796
5	RandomForestClassifier	f1	50	0.8078817733990148
5	RandomForestClassifier	f1	50	0.8275862068965516
5	RandomForestClassifier	f1	50	0.8076923076923077
6	RandomForestClassifier	f1	5	0.84375
6	RandomForestClassifier	f1	5	0.8020833333333333
6	RandomForestClassifier	f1	5	0.8078817733990149
6	RandomForestClassifier	f1	5	0.8269230769230769
6	RandomForestClassifier	f1	50	0.8529411764705882
6	RandomForestClassifier	f1	50	0.8252427184466019
6	RandomForestClassifier	f1	50	0.8155339805825244
6	RandomForestClassifier	f1	50	0.8333333333333334
7	RandomForestClassifier	f1	5	0.7979274611398963
7	RandomForestClassifier	f1	5	0.7653061224489796
7	RandomForestClassifier	f1	5	0.7500000000000001
7	RandomForestClassifier	f1	5	0.8181818181818182
7	RandomForestClassifier	f1	50	0.8514851485148515
7	RandomForestClassifier	f1	50	0.8159203980099504
7	RandomForestClassifier	f1	50	0.8415841584158414
7	RandomForestClassifier	f1	50	0.8223350253807107
8	RandomForestClassifier	f1	5	0.7755102040816327
8	RandomForestClassifier	f1	5	0.7958115183246073
8	RandomForestClassifier	f1	5	0.7715736040609137
8	RandomForestClassifier	f1	5	0.76
8	RandomForestClassifier	f1	50	0.823529411764706
8	RandomForestClassifier	f1	50	0.8076923076923077

8	RandomForestClassifier	f1	50	0.8155339805825244
8	RandomForestClassifier	f1	50	0.8349514563106796
9	RandomForestClassifier	f1	5	0.8615384615384616
9	RandomForestClassifier	f1	5	0.8080808080808081
9	RandomForestClassifier	f1	5	0.8163265306122449
9	RandomForestClassifier	f1	5	0.8275862068965516
9	RandomForestClassifier	f1	50	0.8500000000000001
9	RandomForestClassifier	f1	50	0.8415841584158414
9	RandomForestClassifier	f1	50	0.8436018957345972
9	RandomForestClassifier	f1	50	0.8405797101449276
10	RandomForestClassifier	f1	5	0.7897435897435897
10	RandomForestClassifier	f1	5	0.7748691099476439
10	RandomForestClassifier	f1	5	0.7999999999999999
10	RandomForestClassifier	f1	5	0.8163265306122449
10	RandomForestClassifier	f1	50	0.8059701492537312
10	RandomForestClassifier	f1	50	0.8177339901477831
10	RandomForestClassifier	f1	50	0.8415841584158414
10	RandomForestClassifier	f1	50	0.8217821782178217
11	RandomForestClassifier	f1	5	0.8082901554404145
11	RandomForestClassifier	f1	5	0.748768472906404
11	RandomForestClassifier	f1	5	0.8078817733990149
11	RandomForestClassifier	f1	5	0.8
11	RandomForestClassifier	f1	50	0.875
11	RandomForestClassifier	f1	50	0.8571428571428572
11	RandomForestClassifier	f1	50	0.854368932038835
11	RandomForestClassifier	f1	50	0.8571428571428571
12	RandomForestClassifier	f1	5	0.7676767676767677
12	RandomForestClassifier	f1	5	0.7920792079207921
12	RandomForestClassifier	f1	5	0.7864077669902911
12	RandomForestClassifier	f1	5	0.803921568627451
12	RandomForestClassifier	f1	50	0.819047619047619
12	RandomForestClassifier	f1	50	0.8038277511961723
12	RandomForestClassifier	f1	50	0.819047619047619
12	RandomForestClassifier	f1	50	0.819047619047619
13	RandomForestClassifier	f1	5	0.8020833333333334
13	RandomForestClassifier	f1	5	0.7853403141361257
13	RandomForestClassifier	f1	5	0.8020304568527918
13	RandomForestClassifier	f1	5	0.8102564102564103
13	RandomForestClassifier	f1	50	0.84
13	RandomForestClassifier	f1	50	0.83
13	RandomForestClassifier	f1	50	0.8205128205128205
13	RandomForestClassifier	f1	50	0.8040201005025127
14	RandomForestClassifier	f1	5	0.7853403141361257

14	RandomForestClassifier	f1	5	0.7628865979381444
14	RandomForestClassifier	f1	5	0.8041237113402062
14	RandomForestClassifier	f1	5	0.7692307692307693
14	RandomForestClassifier	f1	50	0.8529411764705881
14	RandomForestClassifier	f1	50	0.8309178743961353
14	RandomForestClassifier	f1	50	0.8500000000000001
14	RandomForestClassifier	f1	50	0.83
15	RandomForestClassifier	f1	5	0.7807486631016043
15	RandomForestClassifier	f1	5	0.7777777777777777
15	RandomForestClassifier	f1	5	0.7777777777777777
15	RandomForestClassifier	f1	5	0.7979274611398963
15	RandomForestClassifier	f1	50	0.8282828282828283
15	RandomForestClassifier	f1	50	0.8059701492537312
15	RandomForestClassifier	f1	50	0.8078817733990148
15	RandomForestClassifier	f1	50	0.8571428571428572
16	RandomForestClassifier	f1	5	0.7980295566502462
16	RandomForestClassifier	f1	5	0.7918781725888325
16	RandomForestClassifier	f1	5	0.8282828282828283
16	RandomForestClassifier	f1	5	0.8080808080808081
16	RandomForestClassifier	f1	50	0.8258706467661693
16	RandomForestClassifier	f1	50	0.8349514563106796
16	RandomForestClassifier	f1	50	0.8282828282828283
16	RandomForestClassifier	f1	50	0.8258706467661693
17	RandomForestClassifier	f1	5	0.7960199004975125
17	RandomForestClassifier	f1	5	0.7857142857142857
17	RandomForestClassifier	f1	5	0.7897435897435897
17	RandomForestClassifier	f1	5	0.7939698492462313
17	RandomForestClassifier	f1	50	0.8252427184466019
17	RandomForestClassifier	f1	50	0.8316831683168318
17	RandomForestClassifier	f1	50	0.84
17	RandomForestClassifier	f1	50	0.8333333333333334
18	RandomForestClassifier	f1	5	0.8020304568527918
18	RandomForestClassifier	f1	5	0.8316831683168318
18	RandomForestClassifier	f1	5	0.835820895522388
18	RandomForestClassifier	f1	5	0.7539267015706805
18	RandomForestClassifier	f1	50	0.801980198019802
18	RandomForestClassifier	f1	50	0.8349514563106796
18	RandomForestClassifier	f1	50	0.8019323671497586
18	RandomForestClassifier	f1	50	0.835820895522388
19	RandomForestClassifier	f1	5	0.8078817733990148
19	RandomForestClassifier	f1	5	0.8500000000000001
19	RandomForestClassifier	f1	5	0.8316831683168318
19	RandomForestClassifier	f1	5	0.8275862068965516

19	RandomForestClassifier	f1	50	0.8292682926829268
19	RandomForestClassifier	f1	50	0.8405797101449276
19	RandomForestClassifier	f1	50	0.848780487804878
19	RandomForestClassifier	f1	50	0.8472906403940887
20	RandomForestClassifier	f1	5	0.8020304568527918
20	RandomForestClassifier	f1	5	0.7857142857142857
20	RandomForestClassifier	f1	5	0.71875
20	RandomForestClassifier	f1	5	0.7978723404255319
20	RandomForestClassifier	f1	50	0.8557213930348259
20	RandomForestClassifier	f1	50	0.84
20	RandomForestClassifier	f1	50	0.803921568627451
20	RandomForestClassifier	f1	50	0.8390243902439024
21	RandomForestClassifier	f1	5	0.7860696517412935
21	RandomForestClassifier	f1	5	0.774869109947644
21	RandomForestClassifier	f1	5	0.7708333333333333
21	RandomForestClassifier	f1	5	0.7835051546391754
21	RandomForestClassifier	f1	50	0.8040201005025126
21	RandomForestClassifier	f1	50	0.8121827411167513
21	RandomForestClassifier	f1	50	0.8082901554404145
21	RandomForestClassifier	f1	50	0.8258706467661693
22	RandomForestClassifier	f1	5	0.8082901554404146
22	RandomForestClassifier	f1	5	0.8282828282828283
22	RandomForestClassifier	f1	5	0.8393782383419689
22	RandomForestClassifier	f1	5	0.7979797979797979
22	RandomForestClassifier	f1	50	0.8599033816425121
22	RandomForestClassifier	f1	50	0.8627450980392158
22	RandomForestClassifier	f1	50	0.848780487804878
22	RandomForestClassifier	f1	50	0.8490566037735848
23	RandomForestClassifier	f1	5	0.8181818181818182
23	RandomForestClassifier	f1	5	0.8061224489795918
23	RandomForestClassifier	f1	5	0.8061224489795918
23	RandomForestClassifier	f1	5	0.8247422680412373
23	RandomForestClassifier	f1	50	0.8457711442786069
23	RandomForestClassifier	f1	50	0.8217821782178217
23	RandomForestClassifier	f1	50	0.8118811881188119
23	RandomForestClassifier	f1	50	0.8078817733990148
24	RandomForestClassifier	f1	5	0.823529411764706
24	RandomForestClassifier	f1	5	0.76
24	RandomForestClassifier	f1	5	0.821256038647343
24	RandomForestClassifier	f1	5	0.8059701492537312
24	RandomForestClassifier	f1	50	0.8195121951219512
24	RandomForestClassifier	f1	50	0.8292682926829268
24	RandomForestClassifier	f1	50	0.7902439024390243

24	RandomForestClassifier	f1	50	0.819047619047619
25	RandomForestClassifier	f1	5	0.7939698492462313
25	RandomForestClassifier	f1	5	0.8061224489795918
25	RandomForestClassifier	f1	5	0.787878787878788
25	RandomForestClassifier	f1	5	0.83
25	RandomForestClassifier	f1	50	0.8457711442786069
25	RandomForestClassifier	f1	50	0.8500000000000001
25	RandomForestClassifier	f1	50	0.8613861386138614
25	RandomForestClassifier	f1	50	0.8446601941747574

Table 21: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.7164179104477612
1	SVC	accuracy	linear	0.7164179104477612
1	SVC	accuracy	rbf	0.7313432835820896
1	SVC	accuracy	rbf	0.7313432835820896
1	SVC	accuracy	linear	0.7164179104477612
1	SVC	accuracy	linear	0.7164179104477612
1	SVC	accuracy	rbf	0.7313432835820896
1	SVC	accuracy	rbf	0.7313432835820896
2	SVC	accuracy	linear	0.7218045112781954
2	SVC	accuracy	linear	0.7218045112781954
2	SVC	accuracy	rbf	0.7293233082706767
2	SVC	accuracy	rbf	0.7293233082706767
2	SVC	accuracy	linear	0.7218045112781954
2	SVC	accuracy	linear	0.7218045112781954
2	SVC	accuracy	rbf	0.7293233082706767
2	SVC	accuracy	rbf	0.7293233082706767
3	SVC	accuracy	linear	0.706766917293233
3	SVC	accuracy	linear	0.706766917293233
3	SVC	accuracy	rbf	0.7669172932330827
3	SVC	accuracy	rbf	0.7669172932330827
3	SVC	accuracy	linear	0.706766917293233
3	SVC	accuracy	linear	0.706766917293233
3	SVC	accuracy	rbf	0.7669172932330827
3	SVC	accuracy	rbf	0.7669172932330827
4	SVC	accuracy	linear	0.6992481203007519
4	SVC	accuracy	linear	0.6992481203007519
4	SVC	accuracy	rbf	0.7293233082706767
4	SVC	accuracy	rbf	0.7293233082706767

4	SVC	accuracy	linear	0.6992481203007519
4	SVC	accuracy	linear	0.6992481203007519
4	SVC	accuracy	rbf	0.7293233082706767
4	SVC	accuracy	rbf	0.7293233082706767
5	SVC	accuracy	linear	0.6766917293233082
5	SVC	accuracy	linear	0.6766917293233082
5	SVC	accuracy	rbf	0.706766917293233
5	SVC	accuracy	rbf	0.706766917293233
5	SVC	accuracy	linear	0.6766917293233082
5	SVC	accuracy	linear	0.6766917293233082
5	SVC	accuracy	rbf	0.706766917293233
5	SVC	accuracy	rbf	0.706766917293233
6	SVC	accuracy	linear	0.7313432835820896
6	SVC	accuracy	linear	0.7313432835820896
6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	linear	0.7313432835820896
6	SVC	accuracy	linear	0.7313432835820896
6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	rbf	0.7611940298507462
7	SVC	accuracy	linear	0.6917293233082706
7	SVC	accuracy	linear	0.6917293233082706
7	SVC	accuracy	rbf	0.7443609022556391
7	SVC	accuracy	rbf	0.7443609022556391
7	SVC	accuracy	linear	0.6917293233082706
7	SVC	accuracy	linear	0.6917293233082706
7	SVC	accuracy	rbf	0.7443609022556391
7	SVC	accuracy	rbf	0.7443609022556391
8	SVC	accuracy	linear	0.6992481203007519
8	SVC	accuracy	linear	0.6992481203007519
8	SVC	accuracy	rbf	0.6992481203007519
8	SVC	accuracy	rbf	0.6992481203007519
8	SVC	accuracy	linear	0.6992481203007519
8	SVC	accuracy	linear	0.6992481203007519
8	SVC	accuracy	rbf	0.6992481203007519
8	SVC	accuracy	rbf	0.6992481203007519
9	SVC	accuracy	linear	0.7142857142857143
9	SVC	accuracy	linear	0.7142857142857143
9	SVC	accuracy	rbf	0.7518796992481203
9	SVC	accuracy	rbf	0.7518796992481203
9	SVC	accuracy	linear	0.7142857142857143
9	SVC	accuracy	linear	0.7142857142857143
9	SVC	accuracy	rbf	0.7518796992481203

9	SVC	accuracy	rbf	0.7518796992481203
10	SVC	accuracy	linear	0.7293233082706767
10	SVC	accuracy	linear	0.7293233082706767
10	SVC	accuracy	rbf	0.7368421052631579
10	SVC	accuracy	rbf	0.7368421052631579
10	SVC	accuracy	linear	0.7293233082706767
10	SVC	accuracy	linear	0.7293233082706767
10	SVC	accuracy	rbf	0.7368421052631579
10	SVC	accuracy	rbf	0.7368421052631579
11	SVC	accuracy	linear	0.7686567164179104
11	SVC	accuracy	linear	0.7686567164179104
11	SVC	accuracy	rbf	0.753731343283582
11	SVC	accuracy	rbf	0.753731343283582
11	SVC	accuracy	linear	0.7686567164179104
11	SVC	accuracy	linear	0.7686567164179104
11	SVC	accuracy	rbf	0.753731343283582
11	SVC	accuracy	rbf	0.753731343283582
12	SVC	accuracy	linear	0.6992481203007519
12	SVC	accuracy	linear	0.6992481203007519
12	SVC	accuracy	rbf	0.6992481203007519
12	SVC	accuracy	rbf	0.6992481203007519
12	SVC	accuracy	linear	0.6992481203007519
12	SVC	accuracy	linear	0.6992481203007519
12	SVC	accuracy	rbf	0.6992481203007519
12	SVC	accuracy	rbf	0.6992481203007519
13	SVC	accuracy	linear	0.7218045112781954
13	SVC	accuracy	linear	0.7218045112781954
13	SVC	accuracy	rbf	0.7894736842105263
13	SVC	accuracy	rbf	0.7894736842105263
13	SVC	accuracy	linear	0.7218045112781954
13	SVC	accuracy	linear	0.7218045112781954
13	SVC	accuracy	rbf	0.7894736842105263
13	SVC	accuracy	rbf	0.7894736842105263
14	SVC	accuracy	linear	0.706766917293233
14	SVC	accuracy	linear	0.706766917293233
14	SVC	accuracy	rbf	0.7218045112781954
14	SVC	accuracy	rbf	0.7218045112781954
14	SVC	accuracy	linear	0.706766917293233
14	SVC	accuracy	linear	0.706766917293233
14	SVC	accuracy	rbf	0.7218045112781954
14	SVC	accuracy	rbf	0.7218045112781954
15	SVC	accuracy	linear	0.7368421052631579
15	SVC	accuracy	linear	0.7368421052631579

15	SVC	accuracy	rbf	0.7443609022556391
15	SVC	accuracy	rbf	0.7443609022556391
15	SVC	accuracy	linear	0.7368421052631579
15	SVC	accuracy	linear	0.7368421052631579
15	SVC	accuracy	rbf	0.7443609022556391
15	SVC	accuracy	rbf	0.7443609022556391
16	SVC	accuracy	linear	0.7238805970149254
16	SVC	accuracy	linear	0.7238805970149254
16	SVC	accuracy	rbf	0.746268656716418
16	SVC	accuracy	rbf	0.746268656716418
16	SVC	accuracy	linear	0.7238805970149254
16	SVC	accuracy	linear	0.7238805970149254
16	SVC	accuracy	rbf	0.746268656716418
16	SVC	accuracy	rbf	0.746268656716418
17	SVC	accuracy	linear	0.7218045112781954
17	SVC	accuracy	linear	0.7218045112781954
17	SVC	accuracy	rbf	0.7218045112781954
17	SVC	accuracy	rbf	0.7218045112781954
17	SVC	accuracy	linear	0.7218045112781954
17	SVC	accuracy	linear	0.7218045112781954
17	SVC	accuracy	rbf	0.7218045112781954
17	SVC	accuracy	rbf	0.7218045112781954
18	SVC	accuracy	linear	0.6992481203007519
18	SVC	accuracy	linear	0.6992481203007519
18	SVC	accuracy	rbf	0.7293233082706767
18	SVC	accuracy	rbf	0.7293233082706767
18	SVC	accuracy	linear	0.6992481203007519
18	SVC	accuracy	linear	0.6992481203007519
18	SVC	accuracy	rbf	0.7293233082706767
18	SVC	accuracy	rbf	0.7293233082706767
19	SVC	accuracy	linear	0.7368421052631579
19	SVC	accuracy	linear	0.7368421052631579
19	SVC	accuracy	rbf	0.7443609022556391
19	SVC	accuracy	rbf	0.7443609022556391
19	SVC	accuracy	linear	0.7368421052631579
19	SVC	accuracy	linear	0.7368421052631579
19	SVC	accuracy	rbf	0.7443609022556391
19	SVC	accuracy	rbf	0.7443609022556391
20	SVC	accuracy	linear	0.7368421052631579
20	SVC	accuracy	linear	0.7368421052631579
20	SVC	accuracy	rbf	0.7819548872180451
20	SVC	accuracy	rbf	0.7819548872180451
20	SVC	accuracy	linear	0.7368421052631579

20	SVC	accuracy	linear	0.7368421052631579
20	SVC	accuracy	rbf	0.7819548872180451
20	SVC	accuracy	rbf	0.7819548872180451
21	SVC	accuracy	linear	0.6716417910447762
21	SVC	accuracy	linear	0.6716417910447762
21	SVC	accuracy	rbf	0.6716417910447762
21	SVC	accuracy	rbf	0.6716417910447762
21	SVC	accuracy	linear	0.6716417910447762
21	SVC	accuracy	linear	0.6716417910447762
21	SVC	accuracy	rbf	0.6716417910447762
21	SVC	accuracy	rbf	0.6716417910447762
22	SVC	accuracy	linear	0.7518796992481203
22	SVC	accuracy	linear	0.7518796992481203
22	SVC	accuracy	rbf	0.7744360902255639
22	SVC	accuracy	rbf	0.7744360902255639
22	SVC	accuracy	linear	0.7518796992481203
22	SVC	accuracy	linear	0.7518796992481203
22	SVC	accuracy	rbf	0.7744360902255639
22	SVC	accuracy	rbf	0.7744360902255639
23	SVC	accuracy	linear	0.7218045112781954
23	SVC	accuracy	linear	0.7218045112781954
23	SVC	accuracy	rbf	0.7142857142857143
23	SVC	accuracy	rbf	0.7142857142857143
23	SVC	accuracy	linear	0.7218045112781954
23	SVC	accuracy	linear	0.7218045112781954
23	SVC	accuracy	rbf	0.7142857142857143
23	SVC	accuracy	rbf	0.7142857142857143
24	SVC	accuracy	linear	0.6766917293233082
24	SVC	accuracy	linear	0.6766917293233082
24	SVC	accuracy	rbf	0.7218045112781954
24	SVC	accuracy	rbf	0.7218045112781954
24	SVC	accuracy	linear	0.6766917293233082
24	SVC	accuracy	linear	0.6766917293233082
24	SVC	accuracy	rbf	0.7218045112781954
24	SVC	accuracy	rbf	0.7218045112781954
25	SVC	accuracy	linear	0.7518796992481203
25	SVC	accuracy	linear	0.7518796992481203
25	SVC	accuracy	rbf	0.7218045112781954
25	SVC	accuracy	rbf	0.7218045112781954
25	SVC	accuracy	linear	0.7518796992481203
25	SVC	accuracy	linear	0.7518796992481203
25	SVC	accuracy	rbf	0.7218045112781954
25	SVC	accuracy	rbf	0.7218045112781954

1	SVC	f1	linear	0.8118811881188118
1	SVC	f1	linear	0.8118811881188118
1	SVC	f1	rbf	0.8317757009345795
1	SVC	f1	rbf	0.8317757009345795
1	SVC	f1	linear	0.8118811881188118
1	SVC	f1	linear	0.8118811881188118
1	SVC	f1	rbf	0.8317757009345795
1	SVC	f1	rbf	0.8317757009345795
2	SVC	f1	linear	0.8159203980099504
2	SVC	f1	linear	0.8159203980099504
2	SVC	f1	rbf	0.8301886792452831
2	SVC	f1	rbf	0.8301886792452831
2	SVC	f1	linear	0.8159203980099504
2	SVC	f1	linear	0.8159203980099504
2	SVC	f1	rbf	0.8301886792452831
2	SVC	f1	rbf	0.8301886792452831
3	SVC	f1	linear	0.7999999999999999
3	SVC	f1	linear	0.7999999999999999
3	SVC	f1	rbf	0.848780487804878
3	SVC	f1	rbf	0.848780487804878
3	SVC	f1	linear	0.7999999999999999
3	SVC	f1	linear	0.7999999999999999
3	SVC	f1	rbf	0.848780487804878
3	SVC	f1	rbf	0.848780487804878
4	SVC	f1	linear	0.7916666666666666
4	SVC	f1	linear	0.7916666666666666
4	SVC	f1	rbf	0.823529411764706
4	SVC	f1	rbf	0.823529411764706
4	SVC	f1	linear	0.7916666666666666
4	SVC	f1	linear	0.7916666666666666
4	SVC	f1	rbf	0.823529411764706
4	SVC	f1	rbf	0.823529411764706
5	SVC	f1	linear	0.7839195979899497
5	SVC	f1	linear	0.7839195979899497
5	SVC	f1	rbf	0.8059701492537312
5	SVC	f1	rbf	0.8059701492537312
5	SVC	f1	linear	0.7839195979899497
5	SVC	f1	linear	0.7839195979899497
5	SVC	f1	rbf	0.8059701492537312
5	SVC	f1	rbf	0.8059701492537312
6	SVC	f1	linear	0.8125
6	SVC	f1	linear	0.8125
6	SVC	f1	rbf	0.8446601941747574

6	SVC	f1	rbf	0.8446601941747574
6	SVC	f1	linear	0.8125
6	SVC	f1	linear	0.8125
6	SVC	f1	rbf	0.8446601941747574
6	SVC	f1	rbf	0.8446601941747574
7	SVC	f1	linear	0.7783783783783783
7	SVC	f1	linear	0.7783783783783783
7	SVC	f1	rbf	0.8365384615384615
7	SVC	f1	rbf	0.8365384615384615
7	SVC	f1	linear	0.7783783783783783
7	SVC	f1	linear	0.7783783783783783
7	SVC	f1	rbf	0.8365384615384615
7	SVC	f1	rbf	0.8365384615384615
8	SVC	f1	linear	0.7938144329896908
8	SVC	f1	linear	0.7938144329896908
8	SVC	f1	rbf	0.8076923076923077
8	SVC	f1	rbf	0.8076923076923077
8	SVC	f1	linear	0.7938144329896908
8	SVC	f1	linear	0.7938144329896908
8	SVC	f1	rbf	0.8076923076923077
8	SVC	f1	rbf	0.8076923076923077
9	SVC	f1	linear	0.8080808080808081
9	SVC	f1	linear	0.8080808080808081
9	SVC	f1	rbf	0.8436018957345972
9	SVC	f1	rbf	0.8436018957345972
9	SVC	f1	linear	0.8080808080808081
9	SVC	f1	linear	0.8080808080808081
9	SVC	f1	rbf	0.8436018957345972
9	SVC	f1	rbf	0.8436018957345972
10	SVC	f1	linear	0.8144329896907216
10	SVC	f1	linear	0.8144329896907216
10	SVC	f1	rbf	0.8341232227488151
10	SVC	f1	rbf	0.8341232227488151
10	SVC	f1	linear	0.8144329896907216
10	SVC	f1	linear	0.8144329896907216
10	SVC	f1	rbf	0.8341232227488151
10	SVC	f1	rbf	0.8341232227488151
11	SVC	f1	linear	0.848780487804878
11	SVC	f1	linear	0.848780487804878
11	SVC	f1	rbf	0.8436018957345972
11	SVC	f1	rbf	0.8436018957345972
11	SVC	f1	linear	0.848780487804878
11	SVC	f1	linear	0.848780487804878

11	SVC	f1	rbf	0.8436018957345972
11	SVC	f1	rbf	0.8436018957345972
12	SVC	f1	linear	0.7999999999999999
12	SVC	f1	linear	0.7999999999999999
12	SVC	f1	rbf	0.8148148148148149
12	SVC	f1	rbf	0.8148148148148149
12	SVC	f1	linear	0.7999999999999999
12	SVC	f1	linear	0.7999999999999999
12	SVC	f1	rbf	0.8148148148148149
12	SVC	f1	rbf	0.8148148148148149
13	SVC	f1	linear	0.806282722513089
13	SVC	f1	linear	0.806282722513089
13	SVC	f1	rbf	0.8640776699029126
13	SVC	f1	rbf	0.8640776699029126
13	SVC	f1	linear	0.806282722513089
13	SVC	f1	linear	0.806282722513089
13	SVC	f1	rbf	0.8640776699029126
13	SVC	f1	rbf	0.8640776699029126
14	SVC	f1	linear	0.8040201005025127
14	SVC	f1	linear	0.8040201005025127
14	SVC	f1	rbf	0.8229665071770336
14	SVC	f1	rbf	0.8229665071770336
14	SVC	f1	linear	0.8040201005025127
14	SVC	f1	linear	0.8040201005025127
14	SVC	f1	rbf	0.8229665071770336
14	SVC	f1	rbf	0.8229665071770336
15	SVC	f1	linear	0.8128342245989305
15	SVC	f1	linear	0.8128342245989305
15	SVC	f1	rbf	0.8349514563106796
15	SVC	f1	rbf	0.8349514563106796
15	SVC	f1	linear	0.8128342245989305
15	SVC	f1	linear	0.8128342245989305
15	SVC	f1	rbf	0.8349514563106796
15	SVC	f1	rbf	0.8349514563106796
16	SVC	f1	linear	0.8082901554404145
16	SVC	f1	linear	0.8082901554404145
16	SVC	f1	rbf	0.8380952380952381
16	SVC	f1	rbf	0.8380952380952381
16	SVC	f1	linear	0.8082901554404145
16	SVC	f1	linear	0.8082901554404145
16	SVC	f1	rbf	0.8380952380952381
16	SVC	f1	rbf	0.8380952380952381
17	SVC	f1	linear	0.8159203980099504

17	SVC	f1	linear	0.8159203980099504
17	SVC	f1	rbf	0.8229665071770336
17	SVC	f1	rbf	0.8229665071770336
17	SVC	f1	linear	0.8159203980099504
17	SVC	f1	linear	0.8159203980099504
17	SVC	f1	rbf	0.8229665071770336
17	SVC	f1	rbf	0.8229665071770336
18	SVC	f1	linear	0.7916666666666666
18	SVC	f1	linear	0.7916666666666666
18	SVC	f1	rbf	0.826923076923077
18	SVC	f1	rbf	0.826923076923077
18	SVC	f1	linear	0.7916666666666666
18	SVC	f1	linear	0.7916666666666666
18	SVC	f1	rbf	0.826923076923077
18	SVC	f1	rbf	0.826923076923077
19	SVC	f1	linear	0.8205128205128205
19	SVC	f1	linear	0.8205128205128205
19	SVC	f1	rbf	0.8396226415094339
19	SVC	f1	rbf	0.8396226415094339
19	SVC	f1	linear	0.8205128205128205
19	SVC	f1	linear	0.8205128205128205
19	SVC	f1	rbf	0.8396226415094339
19	SVC	f1	rbf	0.8396226415094339
20	SVC	f1	linear	0.8148148148148148
20	SVC	f1	linear	0.8148148148148148
20	SVC	f1	rbf	0.8585365853658538
20	SVC	f1	rbf	0.8585365853658538
20	SVC	f1	linear	0.8148148148148148
20	SVC	f1	linear	0.8148148148148148
20	SVC	f1	rbf	0.8585365853658538
20	SVC	f1	rbf	0.8585365853658538
21	SVC	f1	linear	0.7708333333333333
21	SVC	f1	linear	0.7708333333333333
21	SVC	f1	rbf	0.7821782178217823
21	SVC	f1	rbf	0.7821782178217823
21	SVC	f1	linear	0.7708333333333333
21	SVC	f1	linear	0.7708333333333333
21	SVC	f1	rbf	0.7821782178217823
21	SVC	f1	rbf	0.7821782178217823
22	SVC	f1	linear	0.83248730964467
22	SVC	f1	linear	0.83248730964467
22	SVC	f1	rbf	0.8571428571428572
22	SVC	f1	rbf	0.8571428571428572

22	SVC	f1	linear	0.83248730964467
22	SVC	f1	linear	0.83248730964467
22	SVC	f1	rbf	0.8571428571428572
22	SVC	f1	rbf	0.8571428571428572
23	SVC	f1	linear	0.8021390374331551
23	SVC	f1	linear	0.8021390374331551
23	SVC	f1	rbf	0.8137254901960784
23	SVC	f1	rbf	0.8137254901960784
23	SVC	f1	linear	0.8021390374331551
23	SVC	f1	linear	0.8021390374331551
23	SVC	f1	rbf	0.8137254901960784
23	SVC	f1	rbf	0.8137254901960784
24	SVC	f1	linear	0.77720207253886
24	SVC	f1	linear	0.77720207253886
24	SVC	f1	rbf	0.8246445497630333
24	SVC	f1	rbf	0.8246445497630333
24	SVC	f1	linear	0.77720207253886
24	SVC	f1	linear	0.77720207253886
24	SVC	f1	rbf	0.8246445497630333
24	SVC	f1	rbf	0.8246445497630333
25	SVC	f1	linear	0.8341708542713568
25	SVC	f1	linear	0.8341708542713568
25	SVC	f1	rbf	0.8229665071770336
25	SVC	f1	rbf	0.8229665071770336
25	SVC	f1	linear	0.8341708542713568
25	SVC	f1	linear	0.8341708542713568
25	SVC	f1	rbf	0.8229665071770336
25	SVC	f1	rbf	0.8229665071770336

Table 22: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
1	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
1	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
1	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
1	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
1	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
1	DecisionTreeClassifier	accuracy	gini	0.7388059701492538
1	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
2	DecisionTreeClassifier	accuracy	gini	0.6466165413533834

2	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
2	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
2	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
2	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
2	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
2	DecisionTreeClassifier	accuracy	gini	0.631578947368421
2	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
3	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
3	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
3	DecisionTreeClassifier	accuracy	gini	0.631578947368421
3	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
3	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
3	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
3	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
3	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
4	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
4	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
4	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
4	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
4	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
4	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
4	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
4	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
5	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
5	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
5	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
5	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
5	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
5	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
5	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
5	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
6	DecisionTreeClassifier	accuracy	gini	0.664179104477612
6	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
6	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
6	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
6	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
6	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
6	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
6	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
7	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
7	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
7	DecisionTreeClassifier	accuracy	gini	0.631578947368421
7	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895

7	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
7	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
7	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
7	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
8	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
8	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
8	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
8	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
8	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
8	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
8	DecisionTreeClassifier	accuracy	gini	0.706766917293233
8	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
9	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
9	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
9	DecisionTreeClassifier	accuracy	gini	0.631578947368421
9	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
9	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
9	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
9	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
9	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
10	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
10	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
10	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
10	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
10	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
10	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
10	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
10	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
11	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
11	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
11	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
11	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
11	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
11	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
11	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
11	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
12	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
12	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
12	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
12	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
12	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
12	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
12	DecisionTreeClassifier	accuracy	gini	0.6616541353383458

12	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
13	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
13	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
13	DecisionTreeClassifier	accuracy	gini	0.5939849624060151
13	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
13	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
13	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
13	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
13	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
14	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
14	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
14	DecisionTreeClassifier	accuracy	gini	0.6015037593984962
14	DecisionTreeClassifier	accuracy	entropy	0.6165413533834586
14	DecisionTreeClassifier	accuracy	gini	0.5639097744360902
14	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
14	DecisionTreeClassifier	accuracy	gini	0.5789473684210527
14	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
15	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
15	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
15	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
15	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
15	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
15	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
15	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
15	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
16	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
16	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
16	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
16	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
16	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
16	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
16	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
16	DecisionTreeClassifier	accuracy	entropy	0.6044776119402985
17	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
17	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
17	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
17	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
17	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
17	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
17	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
17	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
18	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
18	DecisionTreeClassifier	accuracy	entropy	0.5939849624060151

18	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
18	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
18	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
18	DecisionTreeClassifier	accuracy	entropy	0.6165413533834586
18	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
18	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
19	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
19	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
19	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
19	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
19	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
19	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
19	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
19	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
20	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
20	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
20	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
20	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
20	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
20	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
20	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
20	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
21	DecisionTreeClassifier	accuracy	gini	0.5970149253731343
21	DecisionTreeClassifier	accuracy	entropy	0.582089552238806
21	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
21	DecisionTreeClassifier	accuracy	entropy	0.5597014925373134
21	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
21	DecisionTreeClassifier	accuracy	entropy	0.582089552238806
21	DecisionTreeClassifier	accuracy	gini	0.5895522388059702
21	DecisionTreeClassifier	accuracy	entropy	0.6044776119402985
22	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
22	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
22	DecisionTreeClassifier	accuracy	gini	0.631578947368421
22	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
22	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
22	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
22	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
22	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
23	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
23	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
23	DecisionTreeClassifier	accuracy	gini	0.706766917293233
23	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
23	DecisionTreeClassifier	accuracy	gini	0.6541353383458647

23	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
23	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
23	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
24	DecisionTreeClassifier	accuracy	gini	0.706766917293233
24	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
24	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
24	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
24	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
24	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
24	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
24	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
25	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
25	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
25	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
25	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
25	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
25	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
25	DecisionTreeClassifier	accuracy	gini	0.7443609022556391
25	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
1	DecisionTreeClassifier	f1	gini	0.7958115183246073
1	DecisionTreeClassifier	f1	entropy	0.7444444444444445
1	DecisionTreeClassifier	f1	gini	0.8042328042328043
1	DecisionTreeClassifier	f1	entropy	0.7486033519553073
1	DecisionTreeClassifier	f1	gini	0.806282722513089
1	DecisionTreeClassifier	f1	entropy	0.7555555555555555
1	DecisionTreeClassifier	f1	gini	0.8167539267015708
1	DecisionTreeClassifier	f1	entropy	0.7415730337078651
2	DecisionTreeClassifier	f1	gini	0.758974358974359
2	DecisionTreeClassifier	f1	entropy	0.7539267015706805
2	DecisionTreeClassifier	f1	gini	0.7668393782383419
2	DecisionTreeClassifier	f1	entropy	0.7567567567567567
2	DecisionTreeClassifier	f1	gini	0.7539267015706805
2	DecisionTreeClassifier	f1	entropy	0.7593582887700534
2	DecisionTreeClassifier	f1	gini	0.7461139896373057
2	DecisionTreeClassifier	f1	entropy	0.7513227513227514
3	DecisionTreeClassifier	f1	gini	0.7182320441988951
3	DecisionTreeClassifier	f1	entropy	0.768361581920904
3	DecisionTreeClassifier	f1	gini	0.7262569832402235
3	DecisionTreeClassifier	f1	entropy	0.7865168539325843
3	DecisionTreeClassifier	f1	gini	0.7272727272727274
3	DecisionTreeClassifier	f1	entropy	0.768361581920904
3	DecisionTreeClassifier	f1	gini	0.7444444444444445
3	DecisionTreeClassifier	f1	entropy	0.7999999999999999

4	DecisionTreeClassifier	f1	gini	0.808743169398907
4	DecisionTreeClassifier	f1	entropy	0.8125
4	DecisionTreeClassifier	f1	gini	0.7826086956521738
4	DecisionTreeClassifier	f1	entropy	0.8167539267015708
4	DecisionTreeClassifier	f1	gini	0.7912087912087912
4	DecisionTreeClassifier	f1	entropy	0.8125
4	DecisionTreeClassifier	f1	gini	0.8021978021978021
4	DecisionTreeClassifier	f1	entropy	0.8105263157894737
5	DecisionTreeClassifier	f1	gini	0.7853403141361257
5	DecisionTreeClassifier	f1	entropy	0.7539267015706805
5	DecisionTreeClassifier	f1	gini	0.7724867724867724
5	DecisionTreeClassifier	f1	entropy	0.77720207253886
5	DecisionTreeClassifier	f1	gini	0.7789473684210526
5	DecisionTreeClassifier	f1	entropy	0.776595744680851
5	DecisionTreeClassifier	f1	gini	0.7593582887700534
5	DecisionTreeClassifier	f1	entropy	0.7748691099476439
6	DecisionTreeClassifier	f1	gini	0.7593582887700534
6	DecisionTreeClassifier	f1	entropy	0.776595744680851
6	DecisionTreeClassifier	f1	gini	0.7362637362637362
6	DecisionTreeClassifier	f1	entropy	0.776595744680851
6	DecisionTreeClassifier	f1	gini	0.7741935483870968
6	DecisionTreeClassifier	f1	entropy	0.776595744680851
6	DecisionTreeClassifier	f1	gini	0.7634408602150538
6	DecisionTreeClassifier	f1	entropy	0.7872340425531915
7	DecisionTreeClassifier	f1	gini	0.7272727272727274
7	DecisionTreeClassifier	f1	entropy	0.7916666666666666
7	DecisionTreeClassifier	f1	gini	0.7231638418079096
7	DecisionTreeClassifier	f1	entropy	0.7857142857142857
7	DecisionTreeClassifier	f1	gini	0.7159090909090909
7	DecisionTreeClassifier	f1	entropy	0.7897435897435897
7	DecisionTreeClassifier	f1	gini	0.7528089887640449
7	DecisionTreeClassifier	f1	entropy	0.7959183673469389
8	DecisionTreeClassifier	f1	gini	0.7666666666666667
8	DecisionTreeClassifier	f1	entropy	0.7659574468085107
8	DecisionTreeClassifier	f1	gini	0.7932960893854749
8	DecisionTreeClassifier	f1	entropy	0.8020833333333334
8	DecisionTreeClassifier	f1	gini	0.7934782608695653
8	DecisionTreeClassifier	f1	entropy	0.7608695652173912
8	DecisionTreeClassifier	f1	gini	0.782122905027933
8	DecisionTreeClassifier	f1	entropy	0.7741935483870968
9	DecisionTreeClassifier	f1	gini	0.7472527472527474
9	DecisionTreeClassifier	f1	entropy	0.7708333333333333
9	DecisionTreeClassifier	f1	gini	0.729281767955801

9	DecisionTreeClassifier	f1	entropy	0.7578947368421053
9	DecisionTreeClassifier	f1	gini	0.7362637362637361
9	DecisionTreeClassifier	f1	entropy	0.7708333333333333
9	DecisionTreeClassifier	f1	gini	0.7582417582417582
9	DecisionTreeClassifier	f1	entropy	0.7853403141361257
10	DecisionTreeClassifier	f1	gini	0.7912087912087912
10	DecisionTreeClassifier	f1	entropy	0.7692307692307693
10	DecisionTreeClassifier	f1	gini	0.7570621468926554
10	DecisionTreeClassifier	f1	entropy	0.7472527472527474
10	DecisionTreeClassifier	f1	gini	0.8066298342541436
10	DecisionTreeClassifier	f1	entropy	0.7624309392265195
10	DecisionTreeClassifier	f1	gini	0.7441860465116278
10	DecisionTreeClassifier	f1	entropy	0.7624309392265195
11	DecisionTreeClassifier	f1	gini	0.7724867724867724
11	DecisionTreeClassifier	f1	entropy	0.770053475935829
11	DecisionTreeClassifier	f1	gini	0.7486631016042781
11	DecisionTreeClassifier	f1	entropy	0.7526881720430109
11	DecisionTreeClassifier	f1	gini	0.7724867724867724
11	DecisionTreeClassifier	f1	entropy	0.7608695652173912
11	DecisionTreeClassifier	f1	gini	0.7724867724867724
11	DecisionTreeClassifier	f1	entropy	0.7608695652173912
12	DecisionTreeClassifier	f1	gini	0.7567567567567567
12	DecisionTreeClassifier	f1	entropy	0.7914438502673796
12	DecisionTreeClassifier	f1	gini	0.7567567567567567
12	DecisionTreeClassifier	f1	entropy	0.7741935483870968
12	DecisionTreeClassifier	f1	gini	0.7692307692307693
12	DecisionTreeClassifier	f1	entropy	0.7978723404255319
12	DecisionTreeClassifier	f1	gini	0.7567567567567567
12	DecisionTreeClassifier	f1	entropy	0.7936507936507936
13	DecisionTreeClassifier	f1	gini	0.7459459459459459
13	DecisionTreeClassifier	f1	entropy	0.7849462365591398
13	DecisionTreeClassifier	f1	gini	0.696629213483146
13	DecisionTreeClassifier	f1	entropy	0.7692307692307693
13	DecisionTreeClassifier	f1	gini	0.7634408602150536
13	DecisionTreeClassifier	f1	entropy	0.7783783783783783
13	DecisionTreeClassifier	f1	gini	0.7526881720430108
13	DecisionTreeClassifier	f1	entropy	0.782122905027933
14	DecisionTreeClassifier	f1	gini	0.7222222222222223
14	DecisionTreeClassifier	f1	entropy	0.7351351351351352
14	DecisionTreeClassifier	f1	gini	0.7071823204419889
14	DecisionTreeClassifier	f1	entropy	0.7182320441988951
14	DecisionTreeClassifier	f1	gini	0.6741573033707865
14	DecisionTreeClassifier	f1	entropy	0.7403314917127072

14	DecisionTreeClassifier	f1	gini	0.6853932584269663
14	DecisionTreeClassifier	f1	entropy	0.7379679144385027
15	DecisionTreeClassifier	f1	gini	0.8020833333333334
15	DecisionTreeClassifier	f1	entropy	0.7978723404255319
15	DecisionTreeClassifier	f1	gini	0.7724867724867724
15	DecisionTreeClassifier	f1	entropy	0.806282722513089
15	DecisionTreeClassifier	f1	gini	0.7894736842105262
15	DecisionTreeClassifier	f1	entropy	0.7936507936507936
15	DecisionTreeClassifier	f1	gini	0.7830687830687831
15	DecisionTreeClassifier	f1	entropy	0.8082901554404146
16	DecisionTreeClassifier	f1	gini	0.7486631016042781
16	DecisionTreeClassifier	f1	entropy	0.7351351351351353
16	DecisionTreeClassifier	f1	gini	0.7526881720430109
16	DecisionTreeClassifier	f1	entropy	0.7553191489361702
16	DecisionTreeClassifier	f1	gini	0.7659574468085105
16	DecisionTreeClassifier	f1	entropy	0.7419354838709676
16	DecisionTreeClassifier	f1	gini	0.7362637362637362
16	DecisionTreeClassifier	f1	entropy	0.7165775401069518
17	DecisionTreeClassifier	f1	gini	0.7582417582417582
17	DecisionTreeClassifier	f1	entropy	0.7567567567567567
17	DecisionTreeClassifier	f1	gini	0.7717391304347825
17	DecisionTreeClassifier	f1	entropy	0.7608695652173912
17	DecisionTreeClassifier	f1	gini	0.7717391304347825
17	DecisionTreeClassifier	f1	entropy	0.7608695652173912
17	DecisionTreeClassifier	f1	gini	0.7624309392265195
17	DecisionTreeClassifier	f1	entropy	0.7650273224043715
18	DecisionTreeClassifier	f1	gini	0.7500000000000001
18	DecisionTreeClassifier	f1	entropy	0.7127659574468086
18	DecisionTreeClassifier	f1	gini	0.758974358974359
18	DecisionTreeClassifier	f1	entropy	0.7379679144385027
18	DecisionTreeClassifier	f1	gini	0.7692307692307693
18	DecisionTreeClassifier	f1	entropy	0.7301587301587302
18	DecisionTreeClassifier	f1	gini	0.7564766839378239
18	DecisionTreeClassifier	f1	entropy	0.7204301075268817
19	DecisionTreeClassifier	f1	gini	0.7727272727272727
19	DecisionTreeClassifier	f1	entropy	0.7403314917127072
19	DecisionTreeClassifier	f1	gini	0.7500000000000001
19	DecisionTreeClassifier	f1	entropy	0.7391304347826086
19	DecisionTreeClassifier	f1	gini	0.768361581920904
19	DecisionTreeClassifier	f1	entropy	0.7391304347826086
19	DecisionTreeClassifier	f1	gini	0.7912087912087912
19	DecisionTreeClassifier	f1	entropy	0.7486631016042781
20	DecisionTreeClassifier	f1	gini	0.7567567567567567

20	DecisionTreeClassifier	f1	entropy	0.7582417582417582
20	DecisionTreeClassifier	f1	gini	0.7634408602150536
20	DecisionTreeClassifier	f1	entropy	0.7634408602150536
20	DecisionTreeClassifier	f1	gini	0.7634408602150536
20	DecisionTreeClassifier	f1	entropy	0.7608695652173912
20	DecisionTreeClassifier	f1	gini	0.8082901554404146
20	DecisionTreeClassifier	f1	entropy	0.7282608695652175
21	DecisionTreeClassifier	f1	gini	0.7
21	DecisionTreeClassifier	f1	entropy	0.6818181818181819
21	DecisionTreeClassifier	f1	gini	0.7391304347826088
21	DecisionTreeClassifier	f1	entropy	0.6589595375722543
21	DecisionTreeClassifier	f1	gini	0.729281767955801
21	DecisionTreeClassifier	f1	entropy	0.6818181818181819
21	DecisionTreeClassifier	f1	gini	0.6927374301675977
21	DecisionTreeClassifier	f1	entropy	0.7103825136612022
22	DecisionTreeClassifier	f1	gini	0.7783783783783783
22	DecisionTreeClassifier	f1	entropy	0.7807486631016043
22	DecisionTreeClassifier	f1	gini	0.729281767955801
22	DecisionTreeClassifier	f1	entropy	0.7936507936507936
22	DecisionTreeClassifier	f1	gini	0.7759562841530053
22	DecisionTreeClassifier	f1	entropy	0.7891891891891891
22	DecisionTreeClassifier	f1	gini	0.7634408602150536
22	DecisionTreeClassifier	f1	entropy	0.7783783783783783
23	DecisionTreeClassifier	f1	gini	0.7567567567567567
23	DecisionTreeClassifier	f1	entropy	0.7724867724867724
23	DecisionTreeClassifier	f1	gini	0.7914438502673796
23	DecisionTreeClassifier	f1	entropy	0.7708333333333333
23	DecisionTreeClassifier	f1	gini	0.7553191489361704
23	DecisionTreeClassifier	f1	entropy	0.7513227513227514
23	DecisionTreeClassifier	f1	gini	0.7675675675675675
23	DecisionTreeClassifier	f1	entropy	0.7604166666666667
24	DecisionTreeClassifier	f1	gini	0.7958115183246073
24	DecisionTreeClassifier	f1	entropy	0.7567567567567567
24	DecisionTreeClassifier	f1	gini	0.7938144329896908
24	DecisionTreeClassifier	f1	entropy	0.75
24	DecisionTreeClassifier	f1	gini	0.7812499999999999
24	DecisionTreeClassifier	f1	entropy	0.7717391304347825
24	DecisionTreeClassifier	f1	gini	0.7853403141361257
24	DecisionTreeClassifier	f1	entropy	0.7459459459459459
25	DecisionTreeClassifier	f1	gini	0.7977528089887641
25	DecisionTreeClassifier	f1	entropy	0.7555555555555556
25	DecisionTreeClassifier	f1	gini	0.7752808988764045
25	DecisionTreeClassifier	f1	entropy	0.7431693989071038

25	DecisionTreeClassifier	f1	gini	0.7734806629834253
25	DecisionTreeClassifier	f1	entropy	0.776595744680851
25	DecisionTreeClassifier	f1	gini	0.8131868131868132
25	DecisionTreeClassifier	f1	entropy	0.7608695652173912

Table 23: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.7014925373134329
1	RandomForestClassifier	accuracy	5	0.7014925373134329
1	RandomForestClassifier	accuracy	5	0.6716417910447762
1	RandomForestClassifier	accuracy	5	0.7014925373134329
1	RandomForestClassifier	accuracy	50	0.7686567164179104
1	RandomForestClassifier	accuracy	50	0.7388059701492538
1	RandomForestClassifier	accuracy	50	0.753731343283582
1	RandomForestClassifier	accuracy	50	0.746268656716418
2	RandomForestClassifier	accuracy	5	0.6940298507462687
2	RandomForestClassifier	accuracy	5	0.7388059701492538
2	RandomForestClassifier	accuracy	5	0.7313432835820896
2	RandomForestClassifier	accuracy	5	0.7313432835820896
2	RandomForestClassifier	accuracy	50	0.753731343283582
2	RandomForestClassifier	accuracy	50	0.753731343283582
2	RandomForestClassifier	accuracy	50	0.746268656716418
2	RandomForestClassifier	accuracy	50	0.7686567164179104
3	RandomForestClassifier	accuracy	5	0.6165413533834586
3	RandomForestClassifier	accuracy	5	0.6992481203007519
3	RandomForestClassifier	accuracy	5	0.6917293233082706
3	RandomForestClassifier	accuracy	5	0.6766917293233082
3	RandomForestClassifier	accuracy	50	0.7443609022556391
3	RandomForestClassifier	accuracy	50	0.7293233082706767
3	RandomForestClassifier	accuracy	50	0.7443609022556391
3	RandomForestClassifier	accuracy	50	0.7443609022556391
4	RandomForestClassifier	accuracy	5	0.7293233082706767
4	RandomForestClassifier	accuracy	5	0.7518796992481203
4	RandomForestClassifier	accuracy	5	0.7293233082706767
4	RandomForestClassifier	accuracy	5	0.7293233082706767
4	RandomForestClassifier	accuracy	50	0.7744360902255639
4	RandomForestClassifier	accuracy	50	0.7894736842105263
4	RandomForestClassifier	accuracy	50	0.7669172932330827
4	RandomForestClassifier	accuracy	50	0.7744360902255639
5	RandomForestClassifier	accuracy	5	0.6917293233082706

5	RandomForestClassifier	accuracy	5	0.6992481203007519
5	RandomForestClassifier	accuracy	5	0.6842105263157895
5	RandomForestClassifier	accuracy	5	0.6992481203007519
5	RandomForestClassifier	accuracy	50	0.7368421052631579
5	RandomForestClassifier	accuracy	50	0.7819548872180451
5	RandomForestClassifier	accuracy	50	0.7894736842105263
5	RandomForestClassifier	accuracy	50	0.7518796992481203
6	RandomForestClassifier	accuracy	5	0.7164179104477612
6	RandomForestClassifier	accuracy	5	0.7313432835820896
6	RandomForestClassifier	accuracy	5	0.7014925373134329
6	RandomForestClassifier	accuracy	5	0.7238805970149254
6	RandomForestClassifier	accuracy	50	0.7388059701492538
6	RandomForestClassifier	accuracy	50	0.7686567164179104
6	RandomForestClassifier	accuracy	50	0.7686567164179104
6	RandomForestClassifier	accuracy	50	0.746268656716418
7	RandomForestClassifier	accuracy	5	0.7611940298507462
7	RandomForestClassifier	accuracy	5	0.746268656716418
7	RandomForestClassifier	accuracy	5	0.7313432835820896
7	RandomForestClassifier	accuracy	5	0.7238805970149254
7	RandomForestClassifier	accuracy	50	0.7686567164179104
7	RandomForestClassifier	accuracy	50	0.746268656716418
7	RandomForestClassifier	accuracy	50	0.746268656716418
7	RandomForestClassifier	accuracy	50	0.7611940298507462
8	RandomForestClassifier	accuracy	5	0.6917293233082706
8	RandomForestClassifier	accuracy	5	0.6842105263157895
8	RandomForestClassifier	accuracy	5	0.7218045112781954
8	RandomForestClassifier	accuracy	5	0.6691729323308271
8	RandomForestClassifier	accuracy	50	0.7443609022556391
8	RandomForestClassifier	accuracy	50	0.7218045112781954
8	RandomForestClassifier	accuracy	50	0.7744360902255639
8	RandomForestClassifier	accuracy	50	0.7368421052631579
9	RandomForestClassifier	accuracy	5	0.8270676691729323
9	RandomForestClassifier	accuracy	5	0.6766917293233082
9	RandomForestClassifier	accuracy	5	0.6766917293233082
9	RandomForestClassifier	accuracy	5	0.6766917293233082
9	RandomForestClassifier	accuracy	50	0.7293233082706767
9	RandomForestClassifier	accuracy	50	0.6992481203007519
9	RandomForestClassifier	accuracy	50	0.7593984962406015
9	RandomForestClassifier	accuracy	50	0.7293233082706767
10	RandomForestClassifier	accuracy	5	0.7518796992481203
10	RandomForestClassifier	accuracy	5	0.706766917293233
10	RandomForestClassifier	accuracy	5	0.7518796992481203
10	RandomForestClassifier	accuracy	5	0.7293233082706767

10	RandomForestClassifier	accuracy	50	0.7368421052631579
10	RandomForestClassifier	accuracy	50	0.7969924812030075
10	RandomForestClassifier	accuracy	50	0.7518796992481203
10	RandomForestClassifier	accuracy	50	0.8120300751879699
11	RandomForestClassifier	accuracy	5	0.7089552238805971
11	RandomForestClassifier	accuracy	5	0.7089552238805971
11	RandomForestClassifier	accuracy	5	0.6940298507462687
11	RandomForestClassifier	accuracy	5	0.6865671641791045
11	RandomForestClassifier	accuracy	50	0.7611940298507462
11	RandomForestClassifier	accuracy	50	0.7313432835820896
11	RandomForestClassifier	accuracy	50	0.7686567164179104
11	RandomForestClassifier	accuracy	50	0.7388059701492538
12	RandomForestClassifier	accuracy	5	0.7089552238805971
12	RandomForestClassifier	accuracy	5	0.6940298507462687
12	RandomForestClassifier	accuracy	5	0.6716417910447762
12	RandomForestClassifier	accuracy	5	0.7238805970149254
12	RandomForestClassifier	accuracy	50	0.753731343283582
12	RandomForestClassifier	accuracy	50	0.7238805970149254
12	RandomForestClassifier	accuracy	50	0.7611940298507462
12	RandomForestClassifier	accuracy	50	0.753731343283582
13	RandomForestClassifier	accuracy	5	0.6842105263157895
13	RandomForestClassifier	accuracy	5	0.6616541353383458
13	RandomForestClassifier	accuracy	5	0.6766917293233082
13	RandomForestClassifier	accuracy	5	0.6917293233082706
13	RandomForestClassifier	accuracy	50	0.7368421052631579
13	RandomForestClassifier	accuracy	50	0.7293233082706767
13	RandomForestClassifier	accuracy	50	0.6992481203007519
13	RandomForestClassifier	accuracy	50	0.7293233082706767
14	RandomForestClassifier	accuracy	5	0.7293233082706767
14	RandomForestClassifier	accuracy	5	0.7894736842105263
14	RandomForestClassifier	accuracy	5	0.7518796992481203
14	RandomForestClassifier	accuracy	5	0.7368421052631579
14	RandomForestClassifier	accuracy	50	0.7443609022556391
14	RandomForestClassifier	accuracy	50	0.7443609022556391
14	RandomForestClassifier	accuracy	50	0.7368421052631579
14	RandomForestClassifier	accuracy	50	0.7368421052631579
15	RandomForestClassifier	accuracy	5	0.7293233082706767
15	RandomForestClassifier	accuracy	5	0.6766917293233082
15	RandomForestClassifier	accuracy	5	0.7293233082706767
15	RandomForestClassifier	accuracy	5	0.7142857142857143
15	RandomForestClassifier	accuracy	50	0.7518796992481203
15	RandomForestClassifier	accuracy	50	0.7368421052631579
15	RandomForestClassifier	accuracy	50	0.7593984962406015

15	RandomForestClassifier	accuracy	50	0.7518796992481203
16	RandomForestClassifier	accuracy	5	0.7388059701492538
16	RandomForestClassifier	accuracy	5	0.7313432835820896
16	RandomForestClassifier	accuracy	5	0.7686567164179104
16	RandomForestClassifier	accuracy	5	0.746268656716418
16	RandomForestClassifier	accuracy	50	0.7985074626865671
16	RandomForestClassifier	accuracy	50	0.8283582089552238
16	RandomForestClassifier	accuracy	50	0.7686567164179104
16	RandomForestClassifier	accuracy	50	0.8059701492537313
17	RandomForestClassifier	accuracy	5	0.6417910447761194
17	RandomForestClassifier	accuracy	5	0.6791044776119403
17	RandomForestClassifier	accuracy	5	0.6865671641791045
17	RandomForestClassifier	accuracy	5	0.7089552238805971
17	RandomForestClassifier	accuracy	50	0.7238805970149254
17	RandomForestClassifier	accuracy	50	0.7313432835820896
17	RandomForestClassifier	accuracy	50	0.7164179104477612
17	RandomForestClassifier	accuracy	50	0.7388059701492538
18	RandomForestClassifier	accuracy	5	0.6917293233082706
18	RandomForestClassifier	accuracy	5	0.6992481203007519
18	RandomForestClassifier	accuracy	5	0.7142857142857143
18	RandomForestClassifier	accuracy	5	0.6992481203007519
18	RandomForestClassifier	accuracy	50	0.7142857142857143
18	RandomForestClassifier	accuracy	50	0.706766917293233
18	RandomForestClassifier	accuracy	50	0.6541353383458647
18	RandomForestClassifier	accuracy	50	0.706766917293233
19	RandomForestClassifier	accuracy	5	0.7142857142857143
19	RandomForestClassifier	accuracy	5	0.6842105263157895
19	RandomForestClassifier	accuracy	5	0.6992481203007519
19	RandomForestClassifier	accuracy	5	0.6691729323308271
19	RandomForestClassifier	accuracy	50	0.706766917293233
19	RandomForestClassifier	accuracy	50	0.7368421052631579
19	RandomForestClassifier	accuracy	50	0.7218045112781954
19	RandomForestClassifier	accuracy	50	0.7218045112781954
20	RandomForestClassifier	accuracy	5	0.7293233082706767
20	RandomForestClassifier	accuracy	5	0.7518796992481203
20	RandomForestClassifier	accuracy	5	0.6992481203007519
20	RandomForestClassifier	accuracy	5	0.7518796992481203
20	RandomForestClassifier	accuracy	50	0.8270676691729323
20	RandomForestClassifier	accuracy	50	0.8045112781954887
20	RandomForestClassifier	accuracy	50	0.8195488721804511
20	RandomForestClassifier	accuracy	50	0.8045112781954887
21	RandomForestClassifier	accuracy	5	0.7014925373134329
21	RandomForestClassifier	accuracy	5	0.6940298507462687

21	RandomForestClassifier	accuracy	5	0.7611940298507462
21	RandomForestClassifier	accuracy	5	0.7388059701492538
21	RandomForestClassifier	accuracy	50	0.7611940298507462
21	RandomForestClassifier	accuracy	50	0.7985074626865671
21	RandomForestClassifier	accuracy	50	0.7761194029850746
21	RandomForestClassifier	accuracy	50	0.7761194029850746
22	RandomForestClassifier	accuracy	5	0.6865671641791045
22	RandomForestClassifier	accuracy	5	0.7611940298507462
22	RandomForestClassifier	accuracy	5	0.6940298507462687
22	RandomForestClassifier	accuracy	5	0.6940298507462687
22	RandomForestClassifier	accuracy	50	0.7835820895522388
22	RandomForestClassifier	accuracy	50	0.753731343283582
22	RandomForestClassifier	accuracy	50	0.7164179104477612
22	RandomForestClassifier	accuracy	50	0.7611940298507462
23	RandomForestClassifier	accuracy	5	0.7443609022556391
23	RandomForestClassifier	accuracy	5	0.7218045112781954
23	RandomForestClassifier	accuracy	5	0.6691729323308271
23	RandomForestClassifier	accuracy	5	0.6842105263157895
23	RandomForestClassifier	accuracy	50	0.7218045112781954
23	RandomForestClassifier	accuracy	50	0.7142857142857143
23	RandomForestClassifier	accuracy	50	0.7293233082706767
23	RandomForestClassifier	accuracy	50	0.7218045112781954
24	RandomForestClassifier	accuracy	5	0.7218045112781954
24	RandomForestClassifier	accuracy	5	0.7368421052631579
24	RandomForestClassifier	accuracy	5	0.7218045112781954
24	RandomForestClassifier	accuracy	5	0.7368421052631579
24	RandomForestClassifier	accuracy	50	0.7368421052631579
24	RandomForestClassifier	accuracy	50	0.7969924812030075
24	RandomForestClassifier	accuracy	50	0.7819548872180451
24	RandomForestClassifier	accuracy	50	0.7669172932330827
25	RandomForestClassifier	accuracy	5	0.7218045112781954
25	RandomForestClassifier	accuracy	5	0.7142857142857143
25	RandomForestClassifier	accuracy	5	0.6992481203007519
25	RandomForestClassifier	accuracy	5	0.6616541353383458
25	RandomForestClassifier	accuracy	50	0.7368421052631579
25	RandomForestClassifier	accuracy	50	0.7368421052631579
25	RandomForestClassifier	accuracy	50	0.7744360902255639
25	RandomForestClassifier	accuracy	50	0.7443609022556391
1	RandomForestClassifier	f1	5	0.7894736842105263
1	RandomForestClassifier	f1	5	0.7916666666666665
1	RandomForestClassifier	f1	5	0.7684210526315789
1	RandomForestClassifier	f1	5	0.8
1	RandomForestClassifier	f1	50	0.848780487804878

1	RandomForestClassifier	f1	50	0.8275862068965517
1	RandomForestClassifier	f1	50	0.8374384236453202
1	RandomForestClassifier	f1	50	0.8282828282828283
2	RandomForestClassifier	f1	5	0.7960199004975125
2	RandomForestClassifier	f1	5	0.8223350253807107
2	RandomForestClassifier	f1	5	0.8200000000000001
2	RandomForestClassifier	f1	5	0.8200000000000001
2	RandomForestClassifier	f1	50	0.8374384236453202
2	RandomForestClassifier	f1	50	0.8374384236453202
2	RandomForestClassifier	f1	50	0.8333333333333334
2	RandomForestClassifier	f1	50	0.848780487804878
3	RandomForestClassifier	f1	5	0.7213114754098361
3	RandomForestClassifier	f1	5	0.7894736842105262
3	RandomForestClassifier	f1	5	0.7807486631016043
3	RandomForestClassifier	f1	5	0.7650273224043715
3	RandomForestClassifier	f1	50	0.8191489361702128
3	RandomForestClassifier	f1	50	0.8163265306122449
3	RandomForestClassifier	f1	50	0.8229166666666666
3	RandomForestClassifier	f1	50	0.8247422680412373
4	RandomForestClassifier	f1	5	0.8217821782178217
4	RandomForestClassifier	f1	5	0.8341708542713568
4	RandomForestClassifier	f1	5	0.8181818181818182
4	RandomForestClassifier	f1	5	0.8163265306122449
4	RandomForestClassifier	f1	50	0.8529411764705881
4	RandomForestClassifier	f1	50	0.8627450980392158
4	RandomForestClassifier	f1	50	0.8502415458937198
4	RandomForestClassifier	f1	50	0.8557692307692307
5	RandomForestClassifier	f1	5	0.7897435897435897
5	RandomForestClassifier	f1	5	0.7979797979797979
5	RandomForestClassifier	f1	5	0.7920792079207921
5	RandomForestClassifier	f1	5	0.7938144329896908
5	RandomForestClassifier	f1	50	0.8258706467661692
5	RandomForestClassifier	f1	50	0.8512820512820513
5	RandomForestClassifier	f1	50	0.8627450980392158
5	RandomForestClassifier	f1	50	0.8390243902439024
6	RandomForestClassifier	f1	5	0.8041237113402062
6	RandomForestClassifier	f1	5	0.8181818181818181
6	RandomForestClassifier	f1	5	0.8
6	RandomForestClassifier	f1	5	0.8212560386473429
6	RandomForestClassifier	f1	50	0.8223350253807107
6	RandomForestClassifier	f1	50	0.848780487804878
6	RandomForestClassifier	f1	50	0.845771144278607
6	RandomForestClassifier	f1	50	0.8333333333333334

7	RandomForestClassifier	f1	5	0.8400000000000001
7	RandomForestClassifier	f1	5	0.8229166666666666
7	RandomForestClassifier	f1	5	0.8163265306122448
7	RandomForestClassifier	f1	5	0.8102564102564104
7	RandomForestClassifier	f1	50	0.845771144278607
7	RandomForestClassifier	f1	50	0.8282828282828283
7	RandomForestClassifier	f1	50	0.8300000000000001
7	RandomForestClassifier	f1	50	0.8367346938775511
8	RandomForestClassifier	f1	5	0.7918781725888324
8	RandomForestClassifier	f1	5	0.7812499999999999
8	RandomForestClassifier	f1	5	0.8082901554404146
8	RandomForestClassifier	f1	5	0.7731958762886598
8	RandomForestClassifier	f1	50	0.8282828282828283
8	RandomForestClassifier	f1	50	0.8159203980099504
8	RandomForestClassifier	f1	50	0.8500000000000001
8	RandomForestClassifier	f1	50	0.8223350253807107
9	RandomForestClassifier	f1	5	0.8795811518324608
9	RandomForestClassifier	f1	5	0.77720207253886
9	RandomForestClassifier	f1	5	0.770053475935829
9	RandomForestClassifier	f1	5	0.77720207253886
9	RandomForestClassifier	f1	50	0.8144329896907216
9	RandomForestClassifier	f1	50	0.7938144329896908
9	RandomForestClassifier	f1	50	0.8383838383838383
9	RandomForestClassifier	f1	50	0.8163265306122449
10	RandomForestClassifier	f1	5	0.8272251308900525
10	RandomForestClassifier	f1	5	0.7914438502673796
10	RandomForestClassifier	f1	5	0.8341708542713568
10	RandomForestClassifier	f1	5	0.8043478260869565
10	RandomForestClassifier	f1	50	0.8258706467661692
10	RandomForestClassifier	f1	50	0.8669950738916257
10	RandomForestClassifier	f1	50	0.8405797101449276
10	RandomForestClassifier	f1	50	0.8756218905472636
11	RandomForestClassifier	f1	5	0.7979274611398963
11	RandomForestClassifier	f1	5	0.7958115183246073
11	RandomForestClassifier	f1	5	0.7980295566502462
11	RandomForestClassifier	f1	5	0.776595744680851
11	RandomForestClassifier	f1	50	0.8400000000000001
11	RandomForestClassifier	f1	50	0.8217821782178217
11	RandomForestClassifier	f1	50	0.8442211055276382
11	RandomForestClassifier	f1	50	0.8223350253807107
12	RandomForestClassifier	f1	5	0.7979274611398963
12	RandomForestClassifier	f1	5	0.7939698492462312
12	RandomForestClassifier	f1	5	0.7684210526315789

12	RandomForestClassifier	f1	5	0.8082901554404145
12	RandomForestClassifier	f1	50	0.8390243902439024
12	RandomForestClassifier	f1	50	0.8212560386473429
12	RandomForestClassifier	f1	50	0.8415841584158417
12	RandomForestClassifier	f1	50	0.8405797101449276
13	RandomForestClassifier	f1	5	0.7835051546391754
13	RandomForestClassifier	f1	5	0.7783251231527094
13	RandomForestClassifier	f1	5	0.7817258883248731
13	RandomForestClassifier	f1	5	0.7960199004975125
13	RandomForestClassifier	f1	50	0.8309178743961353
13	RandomForestClassifier	f1	50	0.823529411764706
13	RandomForestClassifier	f1	50	0.803921568627451
13	RandomForestClassifier	f1	50	0.8252427184466019
14	RandomForestClassifier	f1	5	0.8105263157894737
14	RandomForestClassifier	f1	5	0.86
14	RandomForestClassifier	f1	5	0.8272251308900525
14	RandomForestClassifier	f1	5	0.8128342245989305
14	RandomForestClassifier	f1	50	0.83
14	RandomForestClassifier	f1	50	0.8282828282828283
14	RandomForestClassifier	f1	50	0.8258706467661692
14	RandomForestClassifier	f1	50	0.8258706467661692
15	RandomForestClassifier	f1	5	0.8125
15	RandomForestClassifier	f1	5	0.7817258883248731
15	RandomForestClassifier	f1	5	0.823529411764706
15	RandomForestClassifier	f1	5	0.8020833333333334
15	RandomForestClassifier	f1	50	0.8341708542713568
15	RandomForestClassifier	f1	50	0.8258706467661692
15	RandomForestClassifier	f1	50	0.8446601941747574
15	RandomForestClassifier	f1	50	0.835820895522388
16	RandomForestClassifier	f1	5	0.8223350253807107
16	RandomForestClassifier	f1	5	0.8125
16	RandomForestClassifier	f1	5	0.841025641025641
16	RandomForestClassifier	f1	5	0.8282828282828283
16	RandomForestClassifier	f1	50	0.8615384615384615
16	RandomForestClassifier	f1	50	0.8820512820512821
16	RandomForestClassifier	f1	50	0.8442211055276382
16	RandomForestClassifier	f1	50	0.8659793814432989
17	RandomForestClassifier	f1	5	0.76
17	RandomForestClassifier	f1	5	0.7922705314009661
17	RandomForestClassifier	f1	5	0.787878787878788
17	RandomForestClassifier	f1	5	0.8097560975609756
17	RandomForestClassifier	f1	50	0.8212560386473429
17	RandomForestClassifier	f1	50	0.8269230769230769

17	RandomForestClassifier	f1	50	0.819047619047619
17	RandomForestClassifier	f1	50	0.8309178743961352
18	RandomForestClassifier	f1	5	0.7807486631016043
18	RandomForestClassifier	f1	5	0.7916666666666666
18	RandomForestClassifier	f1	5	0.8020833333333334
18	RandomForestClassifier	f1	5	0.7826086956521738
18	RandomForestClassifier	f1	50	0.8061224489795918
18	RandomForestClassifier	f1	50	0.8020304568527918
18	RandomForestClassifier	f1	50	0.7653061224489796
18	RandomForestClassifier	f1	50	0.8059701492537312
19	RandomForestClassifier	f1	5	0.7956989247311826
19	RandomForestClassifier	f1	5	0.7857142857142857
19	RandomForestClassifier	f1	5	0.7916666666666666
19	RandomForestClassifier	f1	5	0.7634408602150536
19	RandomForestClassifier	f1	50	0.8040201005025127
19	RandomForestClassifier	f1	50	0.8223350253807107
19	RandomForestClassifier	f1	50	0.8140703517587939
19	RandomForestClassifier	f1	50	0.8082901554404146
20	RandomForestClassifier	f1	5	0.8163265306122449
20	RandomForestClassifier	f1	5	0.8374384236453202
20	RandomForestClassifier	f1	5	0.7894736842105262
20	RandomForestClassifier	f1	5	0.83248730964467
20	RandomForestClassifier	f1	50	0.8844221105527639
20	RandomForestClassifier	f1	50	0.8712871287128714
20	RandomForestClassifier	f1	50	0.8762886597938144
20	RandomForestClassifier	f1	50	0.8712871287128714
21	RandomForestClassifier	f1	5	0.8058252427184466
21	RandomForestClassifier	f1	5	0.7960199004975125
21	RandomForestClassifier	f1	5	0.8383838383838383
21	RandomForestClassifier	f1	5	0.8223350253807107
21	RandomForestClassifier	f1	50	0.8446601941747574
21	RandomForestClassifier	f1	50	0.8669950738916257
21	RandomForestClassifier	f1	50	0.8500000000000001
21	RandomForestClassifier	f1	50	0.8500000000000001
22	RandomForestClassifier	f1	5	0.7857142857142858
22	RandomForestClassifier	f1	5	0.8350515463917526
22	RandomForestClassifier	f1	5	0.7897435897435897
22	RandomForestClassifier	f1	5	0.7939698492462312
22	RandomForestClassifier	f1	50	0.8571428571428571
22	RandomForestClassifier	f1	50	0.8374384236453202
22	RandomForestClassifier	f1	50	0.8118811881188118
22	RandomForestClassifier	f1	50	0.8400000000000001
23	RandomForestClassifier	f1	5	0.8247422680412373

23	RandomForestClassifier	f1	5	0.8140703517587939
23	RandomForestClassifier	f1	5	0.7755102040816327
23	RandomForestClassifier	f1	5	0.7857142857142857
23	RandomForestClassifier	f1	50	0.8177339901477831
23	RandomForestClassifier	f1	50	0.8155339805825244
23	RandomForestClassifier	f1	50	0.826923076923077
23	RandomForestClassifier	f1	50	0.821256038647343
24	RandomForestClassifier	f1	5	0.8082901554404146
24	RandomForestClassifier	f1	5	0.8167539267015708
24	RandomForestClassifier	f1	5	0.8177339901477831
24	RandomForestClassifier	f1	5	0.8241206030150753
24	RandomForestClassifier	f1	50	0.8223350253807107
24	RandomForestClassifier	f1	50	0.8669950738916257
24	RandomForestClassifier	f1	50	0.8571428571428572
24	RandomForestClassifier	f1	50	0.8442211055276382
25	RandomForestClassifier	f1	5	0.806282722513089
25	RandomForestClassifier	f1	5	0.8080808080808081
25	RandomForestClassifier	f1	5	0.7916666666666666
25	RandomForestClassifier	f1	5	0.7619047619047619
25	RandomForestClassifier	f1	50	0.8205128205128205
25	RandomForestClassifier	f1	50	0.8223350253807107
25	RandomForestClassifier	f1	50	0.845360824742268
25	RandomForestClassifier	f1	50	0.8247422680412373

Table 24: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.746268656716418
1	SVC	accuracy	linear	0.746268656716418
1	SVC	accuracy	rbf	0.746268656716418
1	SVC	accuracy	rbf	0.746268656716418
1	SVC	accuracy	linear	0.746268656716418
1	SVC	accuracy	linear	0.746268656716418
1	SVC	accuracy	rbf	0.746268656716418
1	SVC	accuracy	rbf	0.746268656716418
2	SVC	accuracy	linear	0.8059701492537313
2	SVC	accuracy	linear	0.8059701492537313
2	SVC	accuracy	rbf	0.7611940298507462
2	SVC	accuracy	rbf	0.7611940298507462
2	SVC	accuracy	linear	0.8059701492537313
2	SVC	accuracy	linear	0.8059701492537313

2	SVC	accuracy	rbf	0.7611940298507462
2	SVC	accuracy	rbf	0.7611940298507462
3	SVC	accuracy	linear	0.7142857142857143
3	SVC	accuracy	linear	0.7142857142857143
3	SVC	accuracy	rbf	0.7368421052631579
3	SVC	accuracy	rbf	0.7368421052631579
3	SVC	accuracy	linear	0.7142857142857143
3	SVC	accuracy	linear	0.7142857142857143
3	SVC	accuracy	rbf	0.7368421052631579
3	SVC	accuracy	rbf	0.7368421052631579
4	SVC	accuracy	linear	0.7744360902255639
4	SVC	accuracy	linear	0.7744360902255639
4	SVC	accuracy	rbf	0.7744360902255639
4	SVC	accuracy	rbf	0.7744360902255639
4	SVC	accuracy	linear	0.7744360902255639
4	SVC	accuracy	linear	0.7744360902255639
4	SVC	accuracy	rbf	0.7744360902255639
4	SVC	accuracy	rbf	0.7744360902255639
5	SVC	accuracy	linear	0.706766917293233
5	SVC	accuracy	linear	0.706766917293233
5	SVC	accuracy	rbf	0.7443609022556391
5	SVC	accuracy	rbf	0.7443609022556391
5	SVC	accuracy	linear	0.706766917293233
5	SVC	accuracy	linear	0.706766917293233
5	SVC	accuracy	rbf	0.7443609022556391
5	SVC	accuracy	rbf	0.7443609022556391
6	SVC	accuracy	linear	0.7313432835820896
6	SVC	accuracy	linear	0.7313432835820896
6	SVC	accuracy	rbf	0.746268656716418
6	SVC	accuracy	rbf	0.746268656716418
6	SVC	accuracy	linear	0.7313432835820896
6	SVC	accuracy	linear	0.7313432835820896
6	SVC	accuracy	rbf	0.746268656716418
6	SVC	accuracy	rbf	0.746268656716418
7	SVC	accuracy	linear	0.7388059701492538
7	SVC	accuracy	linear	0.7388059701492538
7	SVC	accuracy	rbf	0.753731343283582
7	SVC	accuracy	rbf	0.753731343283582
7	SVC	accuracy	linear	0.7388059701492538
7	SVC	accuracy	linear	0.7388059701492538
7	SVC	accuracy	rbf	0.753731343283582
7	SVC	accuracy	rbf	0.753731343283582
8	SVC	accuracy	linear	0.7669172932330827

8	SVC	accuracy	linear	0.7669172932330827
8	SVC	accuracy	rbf	0.7293233082706767
8	SVC	accuracy	rbf	0.7293233082706767
8	SVC	accuracy	linear	0.7669172932330827
8	SVC	accuracy	linear	0.7669172932330827
8	SVC	accuracy	rbf	0.7293233082706767
8	SVC	accuracy	rbf	0.7293233082706767
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	rbf	0.7368421052631579
9	SVC	accuracy	rbf	0.7368421052631579
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	rbf	0.7368421052631579
9	SVC	accuracy	rbf	0.7368421052631579
10	SVC	accuracy	linear	0.7894736842105263
10	SVC	accuracy	linear	0.7894736842105263
10	SVC	accuracy	rbf	0.7819548872180451
10	SVC	accuracy	rbf	0.7819548872180451
10	SVC	accuracy	linear	0.7894736842105263
10	SVC	accuracy	linear	0.7894736842105263
10	SVC	accuracy	rbf	0.7819548872180451
10	SVC	accuracy	rbf	0.7819548872180451
11	SVC	accuracy	linear	0.7611940298507462
11	SVC	accuracy	linear	0.7611940298507462
11	SVC	accuracy	rbf	0.7686567164179104
11	SVC	accuracy	rbf	0.7686567164179104
11	SVC	accuracy	linear	0.7611940298507462
11	SVC	accuracy	linear	0.7611940298507462
11	SVC	accuracy	rbf	0.7686567164179104
11	SVC	accuracy	rbf	0.7686567164179104
12	SVC	accuracy	linear	0.7313432835820896
12	SVC	accuracy	linear	0.7313432835820896
12	SVC	accuracy	rbf	0.7686567164179104
12	SVC	accuracy	rbf	0.7686567164179104
12	SVC	accuracy	linear	0.7313432835820896
12	SVC	accuracy	linear	0.7313432835820896
12	SVC	accuracy	rbf	0.7686567164179104
12	SVC	accuracy	rbf	0.7686567164179104
13	SVC	accuracy	linear	0.7142857142857143
13	SVC	accuracy	linear	0.7142857142857143
13	SVC	accuracy	rbf	0.7368421052631579
13	SVC	accuracy	rbf	0.7368421052631579

13	SVC	accuracy	linear	0.7142857142857143
13	SVC	accuracy	linear	0.7142857142857143
13	SVC	accuracy	rbf	0.7368421052631579
13	SVC	accuracy	rbf	0.7368421052631579
14	SVC	accuracy	linear	0.7669172932330827
14	SVC	accuracy	linear	0.7669172932330827
14	SVC	accuracy	rbf	0.7669172932330827
14	SVC	accuracy	rbf	0.7669172932330827
14	SVC	accuracy	linear	0.7669172932330827
14	SVC	accuracy	linear	0.7669172932330827
14	SVC	accuracy	rbf	0.7669172932330827
14	SVC	accuracy	rbf	0.7669172932330827
15	SVC	accuracy	linear	0.706766917293233
15	SVC	accuracy	linear	0.706766917293233
15	SVC	accuracy	rbf	0.7142857142857143
15	SVC	accuracy	rbf	0.7142857142857143
15	SVC	accuracy	linear	0.706766917293233
15	SVC	accuracy	linear	0.706766917293233
15	SVC	accuracy	rbf	0.7142857142857143
15	SVC	accuracy	rbf	0.7142857142857143
16	SVC	accuracy	linear	0.7910447761194029
16	SVC	accuracy	linear	0.7910447761194029
16	SVC	accuracy	rbf	0.7910447761194029
16	SVC	accuracy	rbf	0.7910447761194029
16	SVC	accuracy	linear	0.7910447761194029
16	SVC	accuracy	linear	0.7910447761194029
16	SVC	accuracy	rbf	0.7910447761194029
16	SVC	accuracy	rbf	0.7910447761194029
17	SVC	accuracy	linear	0.7014925373134329
17	SVC	accuracy	linear	0.7014925373134329
17	SVC	accuracy	rbf	0.7388059701492538
17	SVC	accuracy	rbf	0.7388059701492538
17	SVC	accuracy	linear	0.7014925373134329
17	SVC	accuracy	linear	0.7014925373134329
17	SVC	accuracy	rbf	0.7388059701492538
17	SVC	accuracy	rbf	0.7388059701492538
18	SVC	accuracy	linear	0.7142857142857143
18	SVC	accuracy	linear	0.7142857142857143
18	SVC	accuracy	rbf	0.6992481203007519
18	SVC	accuracy	rbf	0.6992481203007519
18	SVC	accuracy	linear	0.7142857142857143
18	SVC	accuracy	linear	0.7142857142857143
18	SVC	accuracy	rbf	0.6992481203007519

18	SVC	accuracy	rbf	0.6992481203007519
19	SVC	accuracy	linear	0.7669172932330827
19	SVC	accuracy	linear	0.7669172932330827
19	SVC	accuracy	rbf	0.7293233082706767
19	SVC	accuracy	rbf	0.7293233082706767
19	SVC	accuracy	linear	0.7669172932330827
19	SVC	accuracy	linear	0.7669172932330827
19	SVC	accuracy	rbf	0.7293233082706767
19	SVC	accuracy	rbf	0.7293233082706767
20	SVC	accuracy	linear	0.7744360902255639
20	SVC	accuracy	linear	0.7744360902255639
20	SVC	accuracy	rbf	0.7744360902255639
20	SVC	accuracy	rbf	0.7744360902255639
20	SVC	accuracy	linear	0.7744360902255639
20	SVC	accuracy	linear	0.7744360902255639
20	SVC	accuracy	rbf	0.7744360902255639
20	SVC	accuracy	rbf	0.7744360902255639
21	SVC	accuracy	linear	0.7089552238805971
21	SVC	accuracy	linear	0.7089552238805971
21	SVC	accuracy	rbf	0.746268656716418
21	SVC	accuracy	rbf	0.746268656716418
21	SVC	accuracy	linear	0.7089552238805971
21	SVC	accuracy	linear	0.7089552238805971
21	SVC	accuracy	rbf	0.746268656716418
21	SVC	accuracy	rbf	0.746268656716418
22	SVC	accuracy	linear	0.7313432835820896
22	SVC	accuracy	linear	0.7313432835820896
22	SVC	accuracy	rbf	0.746268656716418
22	SVC	accuracy	rbf	0.746268656716418
22	SVC	accuracy	linear	0.7313432835820896
22	SVC	accuracy	linear	0.7313432835820896
22	SVC	accuracy	rbf	0.746268656716418
22	SVC	accuracy	rbf	0.746268656716418
23	SVC	accuracy	linear	0.7744360902255639
23	SVC	accuracy	linear	0.7744360902255639
23	SVC	accuracy	rbf	0.7368421052631579
23	SVC	accuracy	rbf	0.7368421052631579
23	SVC	accuracy	linear	0.7744360902255639
23	SVC	accuracy	linear	0.7744360902255639
23	SVC	accuracy	rbf	0.7368421052631579
23	SVC	accuracy	rbf	0.7368421052631579
24	SVC	accuracy	linear	0.7819548872180451
24	SVC	accuracy	linear	0.7819548872180451

24	SVC	accuracy	rbf	0.7744360902255639
24	SVC	accuracy	rbf	0.7744360902255639
24	SVC	accuracy	linear	0.7819548872180451
24	SVC	accuracy	linear	0.7819548872180451
24	SVC	accuracy	rbf	0.7744360902255639
24	SVC	accuracy	rbf	0.7744360902255639
25	SVC	accuracy	linear	0.7669172932330827
25	SVC	accuracy	linear	0.7669172932330827
25	SVC	accuracy	rbf	0.7593984962406015
25	SVC	accuracy	rbf	0.7593984962406015
25	SVC	accuracy	linear	0.7669172932330827
25	SVC	accuracy	linear	0.7669172932330827
25	SVC	accuracy	rbf	0.7593984962406015
25	SVC	accuracy	rbf	0.7593984962406015
1	SVC	f1	linear	0.8172043010752688
1	SVC	f1	linear	0.8172043010752688
1	SVC	f1	rbf	0.8333333333333334
1	SVC	f1	rbf	0.8333333333333334
1	SVC	f1	linear	0.8172043010752688
1	SVC	f1	linear	0.8172043010752688
1	SVC	f1	rbf	0.8333333333333334
1	SVC	f1	rbf	0.8333333333333334
2	SVC	f1	linear	0.8631578947368421
2	SVC	f1	linear	0.8631578947368421
2	SVC	f1	rbf	0.8461538461538461
2	SVC	f1	rbf	0.8461538461538461
2	SVC	f1	linear	0.8631578947368421
2	SVC	f1	linear	0.8631578947368421
2	SVC	f1	rbf	0.8461538461538461
2	SVC	f1	rbf	0.8461538461538461
3	SVC	f1	linear	0.7934782608695653
3	SVC	f1	linear	0.7934782608695653
3	SVC	f1	rbf	0.8205128205128205
3	SVC	f1	rbf	0.8205128205128205
3	SVC	f1	linear	0.7934782608695653
3	SVC	f1	linear	0.7934782608695653
3	SVC	f1	rbf	0.8205128205128205
3	SVC	f1	rbf	0.8205128205128205
4	SVC	f1	linear	0.8514851485148515
4	SVC	f1	linear	0.8514851485148515
4	SVC	f1	rbf	0.8557692307692307
4	SVC	f1	rbf	0.8557692307692307
4	SVC	f1	linear	0.8514851485148515

4	SVC	f1	linear	0.8514851485148515
4	SVC	f1	rbf	0.8557692307692307
4	SVC	f1	rbf	0.8557692307692307
5	SVC	f1	linear	0.7958115183246073
5	SVC	f1	linear	0.7958115183246073
5	SVC	f1	rbf	0.8316831683168318
5	SVC	f1	rbf	0.8316831683168318
5	SVC	f1	linear	0.7958115183246073
5	SVC	f1	linear	0.7958115183246073
5	SVC	f1	rbf	0.8316831683168318
5	SVC	f1	rbf	0.8316831683168318
6	SVC	f1	linear	0.8181818181818181
6	SVC	f1	linear	0.8181818181818181
6	SVC	f1	rbf	0.8349514563106796
6	SVC	f1	rbf	0.8349514563106796
6	SVC	f1	linear	0.8181818181818181
6	SVC	f1	linear	0.8181818181818181
6	SVC	f1	rbf	0.8349514563106796
6	SVC	f1	rbf	0.8349514563106796
7	SVC	f1	linear	0.8128342245989305
7	SVC	f1	linear	0.8128342245989305
7	SVC	f1	rbf	0.8374384236453202
7	SVC	f1	rbf	0.8374384236453202
7	SVC	f1	linear	0.8128342245989305
7	SVC	f1	linear	0.8128342245989305
7	SVC	f1	rbf	0.8374384236453202
7	SVC	f1	rbf	0.8374384236453202
8	SVC	f1	linear	0.8393782383419689
8	SVC	f1	linear	0.8393782383419689
8	SVC	f1	rbf	0.8217821782178217
8	SVC	f1	rbf	0.8217821782178217
8	SVC	f1	linear	0.8393782383419689
8	SVC	f1	linear	0.8393782383419689
8	SVC	f1	rbf	0.8217821782178217
8	SVC	f1	rbf	0.8217821782178217
9	SVC	f1	linear	0.8205128205128205
9	SVC	f1	linear	0.8205128205128205
9	SVC	f1	rbf	0.8258706467661692
9	SVC	f1	rbf	0.8258706467661692
9	SVC	f1	linear	0.8205128205128205
9	SVC	f1	linear	0.8205128205128205
9	SVC	f1	rbf	0.8258706467661692
9	SVC	f1	rbf	0.8258706467661692

10	SVC	f1	linear	0.8541666666666666
10	SVC	f1	linear	0.8541666666666666
10	SVC	f1	rbf	0.8585365853658538
10	SVC	f1	rbf	0.8585365853658538
10	SVC	f1	linear	0.8541666666666666
10	SVC	f1	linear	0.8541666666666666
10	SVC	f1	rbf	0.8585365853658538
10	SVC	f1	rbf	0.8585365853658538
11	SVC	f1	linear	0.8333333333333334
11	SVC	f1	linear	0.8333333333333334
11	SVC	f1	rbf	0.8442211055276382
11	SVC	f1	rbf	0.8442211055276382
11	SVC	f1	linear	0.8333333333333334
11	SVC	f1	linear	0.8333333333333334
11	SVC	f1	rbf	0.8442211055276382
11	SVC	f1	rbf	0.8442211055276382
12	SVC	f1	linear	0.8144329896907218
12	SVC	f1	linear	0.8144329896907218
12	SVC	f1	rbf	0.848780487804878
12	SVC	f1	rbf	0.848780487804878
12	SVC	f1	linear	0.8144329896907218
12	SVC	f1	linear	0.8144329896907218
12	SVC	f1	rbf	0.848780487804878
12	SVC	f1	rbf	0.848780487804878
13	SVC	f1	linear	0.8061224489795918
13	SVC	f1	linear	0.8061224489795918
13	SVC	f1	rbf	0.8341232227488151
13	SVC	f1	rbf	0.8341232227488151
13	SVC	f1	linear	0.8061224489795918
13	SVC	f1	linear	0.8061224489795918
13	SVC	f1	rbf	0.8341232227488151
13	SVC	f1	rbf	0.8341232227488151
14	SVC	f1	linear	0.8324324324324325
14	SVC	f1	linear	0.8324324324324325
14	SVC	f1	rbf	0.8457711442786069
14	SVC	f1	rbf	0.8457711442786069
14	SVC	f1	linear	0.8324324324324325
14	SVC	f1	linear	0.8324324324324325
14	SVC	f1	rbf	0.8457711442786069
14	SVC	f1	rbf	0.8457711442786069
15	SVC	f1	linear	0.8040201005025127
15	SVC	f1	linear	0.8040201005025127
15	SVC	f1	rbf	0.8173076923076923

15	SVC	f1	rbf	0.8173076923076923
15	SVC	f1	linear	0.8040201005025127
15	SVC	f1	linear	0.8040201005025127
15	SVC	f1	rbf	0.8173076923076923
15	SVC	f1	rbf	0.8173076923076923
16	SVC	f1	linear	0.8510638297872339
16	SVC	f1	linear	0.8510638297872339
16	SVC	f1	rbf	0.8613861386138614
16	SVC	f1	rbf	0.8613861386138614
16	SVC	f1	linear	0.8510638297872339
16	SVC	f1	linear	0.8510638297872339
16	SVC	f1	rbf	0.8613861386138614
16	SVC	f1	rbf	0.8613861386138614
17	SVC	f1	linear	0.7916666666666665
17	SVC	f1	linear	0.7916666666666665
17	SVC	f1	rbf	0.8325358851674641
17	SVC	f1	rbf	0.8325358851674641
17	SVC	f1	linear	0.7916666666666665
17	SVC	f1	linear	0.7916666666666665
17	SVC	f1	rbf	0.8325358851674641
17	SVC	f1	rbf	0.8325358851674641
18	SVC	f1	linear	0.7956989247311826
18	SVC	f1	linear	0.7956989247311826
18	SVC	f1	rbf	0.7999999999999999
18	SVC	f1	rbf	0.7999999999999999
18	SVC	f1	linear	0.7956989247311826
18	SVC	f1	linear	0.7956989247311826
18	SVC	f1	rbf	0.7999999999999999
18	SVC	f1	rbf	0.7999999999999999
19	SVC	f1	linear	0.8393782383419689
19	SVC	f1	linear	0.8393782383419689
19	SVC	f1	rbf	0.823529411764706
19	SVC	f1	rbf	0.823529411764706
19	SVC	f1	linear	0.8393782383419689
19	SVC	f1	linear	0.8393782383419689
19	SVC	f1	rbf	0.823529411764706
19	SVC	f1	rbf	0.823529411764706
20	SVC	f1	linear	0.845360824742268
20	SVC	f1	linear	0.845360824742268
20	SVC	f1	rbf	0.8529411764705881
20	SVC	f1	rbf	0.8529411764705881
20	SVC	f1	linear	0.845360824742268
20	SVC	f1	linear	0.845360824742268

20	SVC	f1	rbf	0.8529411764705881
20	SVC	f1	rbf	0.8529411764705881
21	SVC	f1	linear	0.7958115183246073
21	SVC	f1	linear	0.7958115183246073
21	SVC	f1	rbf	0.8316831683168316
21	SVC	f1	rbf	0.8316831683168316
21	SVC	f1	linear	0.7958115183246073
21	SVC	f1	linear	0.7958115183246073
21	SVC	f1	rbf	0.8316831683168316
21	SVC	f1	rbf	0.8316831683168316
22	SVC	f1	linear	0.8181818181818181
22	SVC	f1	linear	0.8181818181818181
22	SVC	f1	rbf	0.8365384615384615
22	SVC	f1	rbf	0.8365384615384615
22	SVC	f1	linear	0.8181818181818181
22	SVC	f1	linear	0.8181818181818181
22	SVC	f1	rbf	0.8365384615384615
22	SVC	f1	rbf	0.8365384615384615
23	SVC	f1	linear	0.845360824742268
23	SVC	f1	linear	0.845360824742268
23	SVC	f1	rbf	0.832535885167464
23	SVC	f1	rbf	0.832535885167464
23	SVC	f1	linear	0.845360824742268
23	SVC	f1	linear	0.845360824742268
23	SVC	f1	rbf	0.832535885167464
23	SVC	f1	rbf	0.832535885167464
24	SVC	f1	linear	0.852791878172589
24	SVC	f1	linear	0.852791878172589
24	SVC	f1	rbf	0.8500000000000001
24	SVC	f1	rbf	0.8500000000000001
24	SVC	f1	linear	0.852791878172589
24	SVC	f1	linear	0.852791878172589
24	SVC	f1	rbf	0.8500000000000001
24	SVC	f1	rbf	0.8500000000000001
25	SVC	f1	linear	0.837696335078534
25	SVC	f1	linear	0.837696335078534
25	SVC	f1	rbf	0.8383838383838383
25	SVC	f1	rbf	0.8383838383838383
25	SVC	f1	linear	0.837696335078534
25	SVC	f1	linear	0.837696335078534
25	SVC	f1	rbf	0.8383838383838383
25	SVC	f1	rbf	0.8383838383838383

Table 25: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.7388059701492538
1	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
1	DecisionTreeClassifier	accuracy	gini	0.7313432835820896
1	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
1	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
1	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
1	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
1	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
2	DecisionTreeClassifier	accuracy	gini	0.7313432835820896
2	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
2	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
2	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
2	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
2	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
2	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
2	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
3	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
3	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
3	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
3	DecisionTreeClassifier	accuracy	entropy	0.6165413533834586
3	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
3	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
3	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
3	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
4	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
4	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
4	DecisionTreeClassifier	accuracy	gini	0.706766917293233
4	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
4	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
4	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
4	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
4	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
5	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
5	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
5	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
5	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
5	DecisionTreeClassifier	accuracy	gini	0.6691729323308271

5	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
5	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
5	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
6	DecisionTreeClassifier	accuracy	gini	0.6194029850746269
6	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
6	DecisionTreeClassifier	accuracy	gini	0.6194029850746269
6	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
6	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
6	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
6	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
6	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
7	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
7	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
7	DecisionTreeClassifier	accuracy	gini	0.753731343283582
7	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
7	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
7	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
7	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
7	DecisionTreeClassifier	accuracy	entropy	0.7313432835820896
8	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
8	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
8	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
8	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
8	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
8	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
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8	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
9	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
9	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
9	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
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10	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
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10	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706

11	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
11	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
11	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
11	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
11	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
11	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
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11	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
12	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
12	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
12	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
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13	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
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16	DecisionTreeClassifier	accuracy	gini	0.6492537313432836

16	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
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19	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
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2	DecisionTreeClassifier	f1	gini	0.8064516129032258

2	DecisionTreeClassifier	f1	entropy	0.7608695652173912
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24	DecisionTreeClassifier	f1	entropy	0.7675675675675675
24	DecisionTreeClassifier	f1	gini	0.7567567567567567
24	DecisionTreeClassifier	f1	entropy	0.7807486631016043
24	DecisionTreeClassifier	f1	gini	0.7486631016042781
24	DecisionTreeClassifier	f1	entropy	0.75
24	DecisionTreeClassifier	f1	gini	0.7659574468085107
24	DecisionTreeClassifier	f1	entropy	0.7692307692307693
25	DecisionTreeClassifier	f1	gini	0.8229166666666666
25	DecisionTreeClassifier	f1	entropy	0.7666666666666667
25	DecisionTreeClassifier	f1	gini	0.8064516129032258
25	DecisionTreeClassifier	f1	entropy	0.7597765363128492
25	DecisionTreeClassifier	f1	gini	0.837696335078534
25	DecisionTreeClassifier	f1	entropy	0.777142857142857
25	DecisionTreeClassifier	f1	gini	0.8387096774193549
25	DecisionTreeClassifier	f1	entropy	0.7796610169491526

Table 26: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.6716417910447762
1	RandomForestClassifier	accuracy	5	0.6791044776119403
1	RandomForestClassifier	accuracy	5	0.7014925373134329
1	RandomForestClassifier	accuracy	5	0.7164179104477612
1	RandomForestClassifier	accuracy	50	0.7164179104477612
1	RandomForestClassifier	accuracy	50	0.7164179104477612
1	RandomForestClassifier	accuracy	50	0.7238805970149254
1	RandomForestClassifier	accuracy	50	0.7238805970149254
2	RandomForestClassifier	accuracy	5	0.7089552238805971
2	RandomForestClassifier	accuracy	5	0.7313432835820896
2	RandomForestClassifier	accuracy	5	0.7388059701492538
2	RandomForestClassifier	accuracy	5	0.582089552238806
2	RandomForestClassifier	accuracy	50	0.7835820895522388
2	RandomForestClassifier	accuracy	50	0.7388059701492538
2	RandomForestClassifier	accuracy	50	0.7164179104477612
2	RandomForestClassifier	accuracy	50	0.7238805970149254
3	RandomForestClassifier	accuracy	5	0.7293233082706767
3	RandomForestClassifier	accuracy	5	0.6691729323308271

3	RandomForestClassifier	accuracy	5	0.6992481203007519
3	RandomForestClassifier	accuracy	5	0.7443609022556391
3	RandomForestClassifier	accuracy	50	0.7368421052631579
3	RandomForestClassifier	accuracy	50	0.7293233082706767
3	RandomForestClassifier	accuracy	50	0.7368421052631579
3	RandomForestClassifier	accuracy	50	0.706766917293233
4	RandomForestClassifier	accuracy	5	0.7218045112781954
4	RandomForestClassifier	accuracy	5	0.7443609022556391
4	RandomForestClassifier	accuracy	5	0.6917293233082706
4	RandomForestClassifier	accuracy	5	0.706766917293233
4	RandomForestClassifier	accuracy	50	0.7518796992481203
4	RandomForestClassifier	accuracy	50	0.7218045112781954
4	RandomForestClassifier	accuracy	50	0.6766917293233082
4	RandomForestClassifier	accuracy	50	0.7142857142857143
5	RandomForestClassifier	accuracy	5	0.6842105263157895
5	RandomForestClassifier	accuracy	5	0.6842105263157895
5	RandomForestClassifier	accuracy	5	0.7368421052631579
5	RandomForestClassifier	accuracy	5	0.7293233082706767
5	RandomForestClassifier	accuracy	50	0.7293233082706767
5	RandomForestClassifier	accuracy	50	0.6766917293233082
5	RandomForestClassifier	accuracy	50	0.7368421052631579
5	RandomForestClassifier	accuracy	50	0.7218045112781954
6	RandomForestClassifier	accuracy	5	0.7014925373134329
6	RandomForestClassifier	accuracy	5	0.7313432835820896
6	RandomForestClassifier	accuracy	5	0.7164179104477612
6	RandomForestClassifier	accuracy	5	0.7014925373134329
6	RandomForestClassifier	accuracy	50	0.753731343283582
6	RandomForestClassifier	accuracy	50	0.7089552238805971
6	RandomForestClassifier	accuracy	50	0.7388059701492538
6	RandomForestClassifier	accuracy	50	0.7313432835820896
7	RandomForestClassifier	accuracy	5	0.7611940298507462
7	RandomForestClassifier	accuracy	5	0.7238805970149254
7	RandomForestClassifier	accuracy	5	0.7313432835820896
7	RandomForestClassifier	accuracy	5	0.7910447761194029
7	RandomForestClassifier	accuracy	50	0.7910447761194029
7	RandomForestClassifier	accuracy	50	0.7761194029850746
7	RandomForestClassifier	accuracy	50	0.7910447761194029
7	RandomForestClassifier	accuracy	50	0.8059701492537313
8	RandomForestClassifier	accuracy	5	0.6992481203007519
8	RandomForestClassifier	accuracy	5	0.6992481203007519
8	RandomForestClassifier	accuracy	5	0.6766917293233082
8	RandomForestClassifier	accuracy	5	0.6616541353383458
8	RandomForestClassifier	accuracy	50	0.7819548872180451

8	RandomForestClassifier	accuracy	50	0.7368421052631579
8	RandomForestClassifier	accuracy	50	0.7142857142857143
8	RandomForestClassifier	accuracy	50	0.7293233082706767
9	RandomForestClassifier	accuracy	5	0.6766917293233082
9	RandomForestClassifier	accuracy	5	0.6541353383458647
9	RandomForestClassifier	accuracy	5	0.6992481203007519
9	RandomForestClassifier	accuracy	5	0.6842105263157895
9	RandomForestClassifier	accuracy	50	0.6992481203007519
9	RandomForestClassifier	accuracy	50	0.6691729323308271
9	RandomForestClassifier	accuracy	50	0.706766917293233
9	RandomForestClassifier	accuracy	50	0.6766917293233082
10	RandomForestClassifier	accuracy	5	0.706766917293233
10	RandomForestClassifier	accuracy	5	0.7142857142857143
10	RandomForestClassifier	accuracy	5	0.7593984962406015
10	RandomForestClassifier	accuracy	5	0.7443609022556391
10	RandomForestClassifier	accuracy	50	0.7669172932330827
10	RandomForestClassifier	accuracy	50	0.7518796992481203
10	RandomForestClassifier	accuracy	50	0.7894736842105263
10	RandomForestClassifier	accuracy	50	0.7218045112781954
11	RandomForestClassifier	accuracy	5	0.746268656716418
11	RandomForestClassifier	accuracy	5	0.7014925373134329
11	RandomForestClassifier	accuracy	5	0.7388059701492538
11	RandomForestClassifier	accuracy	5	0.7089552238805971
11	RandomForestClassifier	accuracy	50	0.7089552238805971
11	RandomForestClassifier	accuracy	50	0.7089552238805971
11	RandomForestClassifier	accuracy	50	0.7164179104477612
11	RandomForestClassifier	accuracy	50	0.7388059701492538
12	RandomForestClassifier	accuracy	5	0.6716417910447762
12	RandomForestClassifier	accuracy	5	0.6492537313432836
12	RandomForestClassifier	accuracy	5	0.664179104477612
12	RandomForestClassifier	accuracy	5	0.6417910447761194
12	RandomForestClassifier	accuracy	50	0.7686567164179104
12	RandomForestClassifier	accuracy	50	0.7014925373134329
12	RandomForestClassifier	accuracy	50	0.7313432835820896
12	RandomForestClassifier	accuracy	50	0.7164179104477612
13	RandomForestClassifier	accuracy	5	0.7142857142857143
13	RandomForestClassifier	accuracy	5	0.7518796992481203
13	RandomForestClassifier	accuracy	5	0.6992481203007519
13	RandomForestClassifier	accuracy	5	0.706766917293233
13	RandomForestClassifier	accuracy	50	0.7593984962406015
13	RandomForestClassifier	accuracy	50	0.7669172932330827
13	RandomForestClassifier	accuracy	50	0.7744360902255639
13	RandomForestClassifier	accuracy	50	0.7894736842105263

14	RandomForestClassifier	accuracy	5	0.6766917293233082
14	RandomForestClassifier	accuracy	5	0.6541353383458647
14	RandomForestClassifier	accuracy	5	0.6917293233082706
14	RandomForestClassifier	accuracy	5	0.6992481203007519
14	RandomForestClassifier	accuracy	50	0.6842105263157895
14	RandomForestClassifier	accuracy	50	0.7293233082706767
14	RandomForestClassifier	accuracy	50	0.7142857142857143
14	RandomForestClassifier	accuracy	50	0.6917293233082706
15	RandomForestClassifier	accuracy	5	0.7368421052631579
15	RandomForestClassifier	accuracy	5	0.7368421052631579
15	RandomForestClassifier	accuracy	5	0.6992481203007519
15	RandomForestClassifier	accuracy	5	0.7142857142857143
15	RandomForestClassifier	accuracy	50	0.7593984962406015
15	RandomForestClassifier	accuracy	50	0.7443609022556391
15	RandomForestClassifier	accuracy	50	0.7293233082706767
15	RandomForestClassifier	accuracy	50	0.7443609022556391
16	RandomForestClassifier	accuracy	5	0.6417910447761194
16	RandomForestClassifier	accuracy	5	0.6865671641791045
16	RandomForestClassifier	accuracy	5	0.6343283582089553
16	RandomForestClassifier	accuracy	5	0.746268656716418
16	RandomForestClassifier	accuracy	50	0.7014925373134329
16	RandomForestClassifier	accuracy	50	0.7089552238805971
16	RandomForestClassifier	accuracy	50	0.7089552238805971
16	RandomForestClassifier	accuracy	50	0.6865671641791045
17	RandomForestClassifier	accuracy	5	0.6940298507462687
17	RandomForestClassifier	accuracy	5	0.7014925373134329
17	RandomForestClassifier	accuracy	5	0.7238805970149254
17	RandomForestClassifier	accuracy	5	0.746268656716418
17	RandomForestClassifier	accuracy	50	0.7686567164179104
17	RandomForestClassifier	accuracy	50	0.7611940298507462
17	RandomForestClassifier	accuracy	50	0.7313432835820896
17	RandomForestClassifier	accuracy	50	0.7761194029850746
18	RandomForestClassifier	accuracy	5	0.6917293233082706
18	RandomForestClassifier	accuracy	5	0.6390977443609023
18	RandomForestClassifier	accuracy	5	0.706766917293233
18	RandomForestClassifier	accuracy	5	0.7669172932330827
18	RandomForestClassifier	accuracy	50	0.7669172932330827
18	RandomForestClassifier	accuracy	50	0.8045112781954887
18	RandomForestClassifier	accuracy	50	0.7894736842105263
18	RandomForestClassifier	accuracy	50	0.7894736842105263
19	RandomForestClassifier	accuracy	5	0.7142857142857143
19	RandomForestClassifier	accuracy	5	0.7368421052631579
19	RandomForestClassifier	accuracy	5	0.6842105263157895

19	RandomForestClassifier	accuracy	5	0.7669172932330827
19	RandomForestClassifier	accuracy	50	0.7293233082706767
19	RandomForestClassifier	accuracy	50	0.7218045112781954
19	RandomForestClassifier	accuracy	50	0.7669172932330827
19	RandomForestClassifier	accuracy	50	0.7443609022556391
20	RandomForestClassifier	accuracy	5	0.7142857142857143
20	RandomForestClassifier	accuracy	5	0.706766917293233
20	RandomForestClassifier	accuracy	5	0.6766917293233082
20	RandomForestClassifier	accuracy	5	0.7593984962406015
20	RandomForestClassifier	accuracy	50	0.7293233082706767
20	RandomForestClassifier	accuracy	50	0.706766917293233
20	RandomForestClassifier	accuracy	50	0.7744360902255639
20	RandomForestClassifier	accuracy	50	0.7443609022556391
21	RandomForestClassifier	accuracy	5	0.7164179104477612
21	RandomForestClassifier	accuracy	5	0.7089552238805971
21	RandomForestClassifier	accuracy	5	0.7388059701492538
21	RandomForestClassifier	accuracy	5	0.6417910447761194
21	RandomForestClassifier	accuracy	50	0.7089552238805971
21	RandomForestClassifier	accuracy	50	0.7313432835820896
21	RandomForestClassifier	accuracy	50	0.7164179104477612
21	RandomForestClassifier	accuracy	50	0.6940298507462687
22	RandomForestClassifier	accuracy	5	0.7238805970149254
22	RandomForestClassifier	accuracy	5	0.6716417910447762
22	RandomForestClassifier	accuracy	5	0.753731343283582
22	RandomForestClassifier	accuracy	5	0.7313432835820896
22	RandomForestClassifier	accuracy	50	0.8059701492537313
22	RandomForestClassifier	accuracy	50	0.7761194029850746
22	RandomForestClassifier	accuracy	50	0.7611940298507462
22	RandomForestClassifier	accuracy	50	0.8059701492537313
23	RandomForestClassifier	accuracy	5	0.7443609022556391
23	RandomForestClassifier	accuracy	5	0.7293233082706767
23	RandomForestClassifier	accuracy	5	0.7443609022556391
23	RandomForestClassifier	accuracy	5	0.6917293233082706
23	RandomForestClassifier	accuracy	50	0.7142857142857143
23	RandomForestClassifier	accuracy	50	0.7368421052631579
23	RandomForestClassifier	accuracy	50	0.6842105263157895
23	RandomForestClassifier	accuracy	50	0.7293233082706767
24	RandomForestClassifier	accuracy	5	0.7443609022556391
24	RandomForestClassifier	accuracy	5	0.7669172932330827
24	RandomForestClassifier	accuracy	5	0.7218045112781954
24	RandomForestClassifier	accuracy	5	0.7293233082706767
24	RandomForestClassifier	accuracy	50	0.7744360902255639
24	RandomForestClassifier	accuracy	50	0.7669172932330827

24	RandomForestClassifier	accuracy	50	0.8270676691729323
24	RandomForestClassifier	accuracy	50	0.7744360902255639
25	RandomForestClassifier	accuracy	5	0.6766917293233082
25	RandomForestClassifier	accuracy	5	0.6390977443609023
25	RandomForestClassifier	accuracy	5	0.6616541353383458
25	RandomForestClassifier	accuracy	5	0.7443609022556391
25	RandomForestClassifier	accuracy	50	0.7443609022556391
25	RandomForestClassifier	accuracy	50	0.7218045112781954
25	RandomForestClassifier	accuracy	50	0.7293233082706767
25	RandomForestClassifier	accuracy	50	0.7218045112781954
1	RandomForestClassifier	f1	5	0.78
1	RandomForestClassifier	f1	5	0.774869109947644
1	RandomForestClassifier	f1	5	0.7979797979797979
1	RandomForestClassifier	f1	5	0.8041237113402062
1	RandomForestClassifier	f1	50	0.8118811881188118
1	RandomForestClassifier	f1	50	0.8118811881188118
1	RandomForestClassifier	f1	50	0.8121827411167513
1	RandomForestClassifier	f1	50	0.8140703517587939
2	RandomForestClassifier	f1	5	0.7999999999999999
2	RandomForestClassifier	f1	5	0.8252427184466019
2	RandomForestClassifier	f1	5	0.8223350253807107
2	RandomForestClassifier	f1	5	0.7052631578947368
2	RandomForestClassifier	f1	50	0.861244019138756
2	RandomForestClassifier	f1	50	0.8292682926829268
2	RandomForestClassifier	f1	50	0.8118811881188118
2	RandomForestClassifier	f1	50	0.8195121951219513
3	RandomForestClassifier	f1	5	0.8217821782178217
3	RandomForestClassifier	f1	5	0.7708333333333333
3	RandomForestClassifier	f1	5	0.7979797979797979
3	RandomForestClassifier	f1	5	0.8349514563106796
3	RandomForestClassifier	f1	50	0.8341232227488151
3	RandomForestClassifier	f1	50	0.8285714285714285
3	RandomForestClassifier	f1	50	0.832535885167464
3	RandomForestClassifier	f1	50	0.8169014084507041
4	RandomForestClassifier	f1	5	0.8102564102564103
4	RandomForestClassifier	f1	5	0.8282828282828283
4	RandomForestClassifier	f1	5	0.7960199004975125
4	RandomForestClassifier	f1	5	0.7999999999999999
4	RandomForestClassifier	f1	50	0.835820895522388
4	RandomForestClassifier	f1	50	0.8102564102564103
4	RandomForestClassifier	f1	50	0.7817258883248731
4	RandomForestClassifier	f1	50	0.8080808080808081
5	RandomForestClassifier	f1	5	0.776595744680851

5	RandomForestClassifier	f1	5	0.7857142857142857
5	RandomForestClassifier	f1	5	0.8223350253807107
5	RandomForestClassifier	f1	5	0.8181818181818182
5	RandomForestClassifier	f1	50	0.8181818181818182
5	RandomForestClassifier	f1	50	0.7860696517412935
5	RandomForestClassifier	f1	50	0.8241206030150753
5	RandomForestClassifier	f1	50	0.8121827411167513
6	RandomForestClassifier	f1	5	0.7938144329896908
6	RandomForestClassifier	f1	5	0.8125
6	RandomForestClassifier	f1	5	0.8118811881188118
6	RandomForestClassifier	f1	5	0.7894736842105263
6	RandomForestClassifier	f1	50	0.8374384236453202
6	RandomForestClassifier	f1	50	0.8059701492537313
6	RandomForestClassifier	f1	50	0.8275862068965517
6	RandomForestClassifier	f1	50	0.8217821782178217
7	RandomForestClassifier	f1	5	0.8279569892473119
7	RandomForestClassifier	f1	5	0.8121827411167513
7	RandomForestClassifier	f1	5	0.8064516129032258
7	RandomForestClassifier	f1	5	0.8613861386138614
7	RandomForestClassifier	f1	50	0.8627450980392157
7	RandomForestClassifier	f1	50	0.8571428571428572
7	RandomForestClassifier	f1	50	0.8600000000000001
7	RandomForestClassifier	f1	50	0.8712871287128713
8	RandomForestClassifier	f1	5	0.7979797979797979
8	RandomForestClassifier	f1	5	0.801980198019802
8	RandomForestClassifier	f1	5	0.7817258883248731
8	RandomForestClassifier	f1	5	0.7804878048780488
8	RandomForestClassifier	f1	50	0.8599033816425121
8	RandomForestClassifier	f1	50	0.8258706467661692
8	RandomForestClassifier	f1	50	0.81
8	RandomForestClassifier	f1	50	0.8285714285714285
9	RandomForestClassifier	f1	5	0.7724867724867724
9	RandomForestClassifier	f1	5	0.7604166666666667
9	RandomForestClassifier	f1	5	0.7938144329896908
9	RandomForestClassifier	f1	5	0.787878787878788
9	RandomForestClassifier	f1	50	0.7979797979797979
9	RandomForestClassifier	f1	50	0.7708333333333333
9	RandomForestClassifier	f1	50	0.8020304568527918
9	RandomForestClassifier	f1	50	0.77720207253886
10	RandomForestClassifier	f1	5	0.8040201005025127
10	RandomForestClassifier	f1	5	0.81
10	RandomForestClassifier	f1	5	0.8333333333333333
10	RandomForestClassifier	f1	5	0.826530612244898

10	RandomForestClassifier	f1	50	0.8472906403940887
10	RandomForestClassifier	f1	50	0.8374384236453202
10	RandomForestClassifier	f1	50	0.8627450980392158
10	RandomForestClassifier	f1	50	0.8121827411167513
11	RandomForestClassifier	f1	5	0.8210526315789474
11	RandomForestClassifier	f1	5	0.8
11	RandomForestClassifier	f1	5	0.8186528497409327
11	RandomForestClassifier	f1	5	0.8078817733990149
11	RandomForestClassifier	f1	50	0.8078817733990149
11	RandomForestClassifier	f1	50	0.8040201005025126
11	RandomForestClassifier	f1	50	0.8099999999999999
11	RandomForestClassifier	f1	50	0.8258706467661693
12	RandomForestClassifier	f1	5	0.7731958762886597
12	RandomForestClassifier	f1	5	0.7513227513227513
12	RandomForestClassifier	f1	5	0.7692307692307692
12	RandomForestClassifier	f1	5	0.7499999999999999
12	RandomForestClassifier	f1	50	0.848780487804878
12	RandomForestClassifier	f1	50	0.8
12	RandomForestClassifier	f1	50	0.8163265306122448
12	RandomForestClassifier	f1	50	0.8137254901960784
13	RandomForestClassifier	f1	5	0.8061224489795918
13	RandomForestClassifier	f1	5	0.83248730964467
13	RandomForestClassifier	f1	5	0.801980198019802
13	RandomForestClassifier	f1	5	0.8020304568527918
13	RandomForestClassifier	f1	50	0.8446601941747574
13	RandomForestClassifier	f1	50	0.8516746411483255
13	RandomForestClassifier	f1	50	0.8584905660377358
13	RandomForestClassifier	f1	50	0.8653846153846155
14	RandomForestClassifier	f1	5	0.7922705314009661
14	RandomForestClassifier	f1	5	0.7766990291262136
14	RandomForestClassifier	f1	5	0.7960199004975125
14	RandomForestClassifier	f1	5	0.8076923076923077
14	RandomForestClassifier	f1	50	0.8018867924528302
14	RandomForestClassifier	f1	50	0.8301886792452831
14	RandomForestClassifier	f1	50	0.820754716981132
14	RandomForestClassifier	f1	50	0.8038277511961723
15	RandomForestClassifier	f1	5	0.8128342245989305
15	RandomForestClassifier	f1	5	0.8128342245989305
15	RandomForestClassifier	f1	5	0.7938144329896908
15	RandomForestClassifier	f1	5	0.8020833333333334
15	RandomForestClassifier	f1	50	0.8383838383838383
15	RandomForestClassifier	f1	50	0.8282828282828283
15	RandomForestClassifier	f1	50	0.82

15	RandomForestClassifier	f1	50	0.8247422680412373
16	RandomForestClassifier	f1	5	0.76
16	RandomForestClassifier	f1	5	0.79
16	RandomForestClassifier	f1	5	0.7586206896551724
16	RandomForestClassifier	f1	5	0.8316831683168316
16	RandomForestClassifier	f1	50	0.8076923076923077
16	RandomForestClassifier	f1	50	0.8151658767772513
16	RandomForestClassifier	f1	50	0.8115942028985508
16	RandomForestClassifier	f1	50	0.7980769230769231
17	RandomForestClassifier	f1	5	0.7918781725888325
17	RandomForestClassifier	f1	5	0.8
17	RandomForestClassifier	f1	5	0.8121827411167513
17	RandomForestClassifier	f1	5	0.8333333333333334
17	RandomForestClassifier	f1	50	0.845771144278607
17	RandomForestClassifier	f1	50	0.8415841584158417
17	RandomForestClassifier	f1	50	0.8269230769230769
17	RandomForestClassifier	f1	50	0.854368932038835
18	RandomForestClassifier	f1	5	0.7918781725888324
18	RandomForestClassifier	f1	5	0.7500000000000001
18	RandomForestClassifier	f1	5	0.7958115183246073
18	RandomForestClassifier	f1	5	0.8359788359788359
18	RandomForestClassifier	f1	50	0.848780487804878
18	RandomForestClassifier	f1	50	0.8699999999999999
18	RandomForestClassifier	f1	50	0.8556701030927835
18	RandomForestClassifier	f1	50	0.8556701030927835
19	RandomForestClassifier	f1	5	0.8
19	RandomForestClassifier	f1	5	0.8258706467661692
19	RandomForestClassifier	f1	5	0.7920792079207921
19	RandomForestClassifier	f1	5	0.8426395939086294
19	RandomForestClassifier	f1	50	0.8181818181818182
19	RandomForestClassifier	f1	50	0.8140703517587939
19	RandomForestClassifier	f1	50	0.8472906403940887
19	RandomForestClassifier	f1	50	0.8349514563106796
20	RandomForestClassifier	f1	5	0.81
20	RandomForestClassifier	f1	5	0.7936507936507936
20	RandomForestClassifier	f1	5	0.77720207253886
20	RandomForestClassifier	f1	5	0.84
20	RandomForestClassifier	f1	50	0.82
20	RandomForestClassifier	f1	50	0.8097560975609757
20	RandomForestClassifier	f1	50	0.8500000000000001
20	RandomForestClassifier	f1	50	0.8316831683168318
21	RandomForestClassifier	f1	5	0.8118811881188118
21	RandomForestClassifier	f1	5	0.8040201005025126

21	RandomForestClassifier	f1	5	0.8205128205128204
21	RandomForestClassifier	f1	5	0.7551020408163265
21	RandomForestClassifier	f1	50	0.8078817733990149
21	RandomForestClassifier	f1	50	0.8217821782178217
21	RandomForestClassifier	f1	50	0.8099999999999999
21	RandomForestClassifier	f1	50	0.7939698492462312
22	RandomForestClassifier	f1	5	0.8140703517587939
22	RandomForestClassifier	f1	5	0.7884615384615385
22	RandomForestClassifier	f1	5	0.8253968253968254
22	RandomForestClassifier	f1	5	0.8181818181818181
22	RandomForestClassifier	f1	50	0.8712871287128713
22	RandomForestClassifier	f1	50	0.8571428571428572
22	RandomForestClassifier	f1	50	0.8476190476190476
22	RandomForestClassifier	f1	50	0.8773584905660378
23	RandomForestClassifier	f1	5	0.8282828282828283
23	RandomForestClassifier	f1	5	0.8217821782178217
23	RandomForestClassifier	f1	5	0.8282828282828283
23	RandomForestClassifier	f1	5	0.7853403141361257
23	RandomForestClassifier	f1	50	0.81
23	RandomForestClassifier	f1	50	0.8309178743961353
23	RandomForestClassifier	f1	50	0.8
23	RandomForestClassifier	f1	50	0.823529411764706
24	RandomForestClassifier	f1	5	0.8282828282828283
24	RandomForestClassifier	f1	5	0.8442211055276382
24	RandomForestClassifier	f1	5	0.8082901554404146
24	RandomForestClassifier	f1	5	0.8163265306122449
24	RandomForestClassifier	f1	50	0.8514851485148515
24	RandomForestClassifier	f1	50	0.8442211055276382
24	RandomForestClassifier	f1	50	0.8844221105527639
24	RandomForestClassifier	f1	50	0.8500000000000001
25	RandomForestClassifier	f1	5	0.7724867724867724
25	RandomForestClassifier	f1	5	0.7525773195876289
25	RandomForestClassifier	f1	5	0.7668393782383419
25	RandomForestClassifier	f1	5	0.8229166666666666
25	RandomForestClassifier	f1	50	0.8333333333333334
25	RandomForestClassifier	f1	50	0.8140703517587939
25	RandomForestClassifier	f1	50	0.82
25	RandomForestClassifier	f1	50	0.8140703517587939

Table 27: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.7313432835820896
1	SVC	accuracy	linear	0.7313432835820896
1	SVC	accuracy	rbf	0.7164179104477612
1	SVC	accuracy	rbf	0.7164179104477612
1	SVC	accuracy	linear	0.7313432835820896
1	SVC	accuracy	linear	0.7313432835820896
1	SVC	accuracy	rbf	0.7164179104477612
1	SVC	accuracy	rbf	0.7164179104477612
2	SVC	accuracy	linear	0.7238805970149254
2	SVC	accuracy	linear	0.7238805970149254
2	SVC	accuracy	rbf	0.7238805970149254
2	SVC	accuracy	rbf	0.7238805970149254
2	SVC	accuracy	linear	0.7238805970149254
2	SVC	accuracy	linear	0.7238805970149254
2	SVC	accuracy	rbf	0.7238805970149254
2	SVC	accuracy	rbf	0.7238805970149254
3	SVC	accuracy	linear	0.706766917293233
3	SVC	accuracy	linear	0.706766917293233
3	SVC	accuracy	rbf	0.7593984962406015
3	SVC	accuracy	rbf	0.7593984962406015
3	SVC	accuracy	linear	0.706766917293233
3	SVC	accuracy	linear	0.706766917293233
3	SVC	accuracy	rbf	0.7593984962406015
3	SVC	accuracy	rbf	0.7593984962406015
4	SVC	accuracy	linear	0.7593984962406015
4	SVC	accuracy	linear	0.7593984962406015
4	SVC	accuracy	rbf	0.7669172932330827
4	SVC	accuracy	rbf	0.7669172932330827
4	SVC	accuracy	linear	0.7593984962406015
4	SVC	accuracy	linear	0.7593984962406015
4	SVC	accuracy	rbf	0.7669172932330827
4	SVC	accuracy	rbf	0.7669172932330827
5	SVC	accuracy	linear	0.7368421052631579
5	SVC	accuracy	linear	0.7368421052631579
5	SVC	accuracy	rbf	0.7669172932330827
5	SVC	accuracy	rbf	0.7669172932330827
5	SVC	accuracy	linear	0.7368421052631579
5	SVC	accuracy	linear	0.7368421052631579
5	SVC	accuracy	rbf	0.7669172932330827
5	SVC	accuracy	rbf	0.7669172932330827
6	SVC	accuracy	linear	0.746268656716418
6	SVC	accuracy	linear	0.746268656716418

6	SVC	accuracy	rbf	0.7313432835820896
6	SVC	accuracy	rbf	0.7313432835820896
6	SVC	accuracy	linear	0.746268656716418
6	SVC	accuracy	linear	0.746268656716418
6	SVC	accuracy	rbf	0.7313432835820896
6	SVC	accuracy	rbf	0.7313432835820896
7	SVC	accuracy	linear	0.7761194029850746
7	SVC	accuracy	linear	0.7761194029850746
7	SVC	accuracy	rbf	0.8134328358208955
7	SVC	accuracy	rbf	0.8134328358208955
7	SVC	accuracy	linear	0.7761194029850746
7	SVC	accuracy	linear	0.7761194029850746
7	SVC	accuracy	rbf	0.8134328358208955
7	SVC	accuracy	rbf	0.8134328358208955
8	SVC	accuracy	linear	0.6917293233082706
8	SVC	accuracy	linear	0.6917293233082706
8	SVC	accuracy	rbf	0.7443609022556391
8	SVC	accuracy	rbf	0.7443609022556391
8	SVC	accuracy	linear	0.6917293233082706
8	SVC	accuracy	linear	0.6917293233082706
8	SVC	accuracy	rbf	0.7443609022556391
8	SVC	accuracy	rbf	0.7443609022556391
9	SVC	accuracy	linear	0.706766917293233
9	SVC	accuracy	linear	0.706766917293233
9	SVC	accuracy	rbf	0.6842105263157895
9	SVC	accuracy	rbf	0.6842105263157895
9	SVC	accuracy	linear	0.706766917293233
9	SVC	accuracy	linear	0.706766917293233
9	SVC	accuracy	rbf	0.6842105263157895
9	SVC	accuracy	rbf	0.6842105263157895
10	SVC	accuracy	linear	0.8045112781954887
10	SVC	accuracy	linear	0.8045112781954887
10	SVC	accuracy	rbf	0.7293233082706767
10	SVC	accuracy	rbf	0.7293233082706767
10	SVC	accuracy	linear	0.8045112781954887
10	SVC	accuracy	linear	0.8045112781954887
10	SVC	accuracy	rbf	0.7293233082706767
10	SVC	accuracy	rbf	0.7293233082706767
11	SVC	accuracy	linear	0.7238805970149254
11	SVC	accuracy	linear	0.7238805970149254
11	SVC	accuracy	rbf	0.7611940298507462
11	SVC	accuracy	rbf	0.7611940298507462
11	SVC	accuracy	linear	0.7238805970149254

11	SVC	accuracy	linear	0.7238805970149254
11	SVC	accuracy	rbf	0.7611940298507462
11	SVC	accuracy	rbf	0.7611940298507462
12	SVC	accuracy	linear	0.6791044776119403
12	SVC	accuracy	linear	0.6791044776119403
12	SVC	accuracy	rbf	0.7238805970149254
12	SVC	accuracy	rbf	0.7238805970149254
12	SVC	accuracy	linear	0.6791044776119403
12	SVC	accuracy	linear	0.6791044776119403
12	SVC	accuracy	rbf	0.7238805970149254
12	SVC	accuracy	rbf	0.7238805970149254
13	SVC	accuracy	linear	0.7669172932330827
13	SVC	accuracy	linear	0.7669172932330827
13	SVC	accuracy	rbf	0.7443609022556391
13	SVC	accuracy	rbf	0.7443609022556391
13	SVC	accuracy	linear	0.7669172932330827
13	SVC	accuracy	linear	0.7669172932330827
13	SVC	accuracy	rbf	0.7443609022556391
13	SVC	accuracy	rbf	0.7443609022556391
14	SVC	accuracy	linear	0.7368421052631579
14	SVC	accuracy	linear	0.7368421052631579
14	SVC	accuracy	rbf	0.7142857142857143
14	SVC	accuracy	rbf	0.7142857142857143
14	SVC	accuracy	linear	0.7368421052631579
14	SVC	accuracy	linear	0.7368421052631579
14	SVC	accuracy	rbf	0.7142857142857143
14	SVC	accuracy	rbf	0.7142857142857143
15	SVC	accuracy	linear	0.7819548872180451
15	SVC	accuracy	linear	0.7819548872180451
15	SVC	accuracy	rbf	0.7443609022556391
15	SVC	accuracy	rbf	0.7443609022556391
15	SVC	accuracy	linear	0.7819548872180451
15	SVC	accuracy	linear	0.7819548872180451
15	SVC	accuracy	rbf	0.7443609022556391
15	SVC	accuracy	rbf	0.7443609022556391
16	SVC	accuracy	linear	0.6716417910447762
16	SVC	accuracy	linear	0.6716417910447762
16	SVC	accuracy	rbf	0.6865671641791045
16	SVC	accuracy	rbf	0.6865671641791045
16	SVC	accuracy	linear	0.6716417910447762
16	SVC	accuracy	linear	0.6716417910447762
16	SVC	accuracy	rbf	0.6865671641791045
16	SVC	accuracy	rbf	0.6865671641791045

17	SVC	accuracy	linear	0.753731343283582
17	SVC	accuracy	linear	0.753731343283582
17	SVC	accuracy	rbf	0.7388059701492538
17	SVC	accuracy	rbf	0.7388059701492538
17	SVC	accuracy	linear	0.753731343283582
17	SVC	accuracy	linear	0.753731343283582
17	SVC	accuracy	rbf	0.7388059701492538
17	SVC	accuracy	rbf	0.7388059701492538
18	SVC	accuracy	linear	0.7368421052631579
18	SVC	accuracy	linear	0.7368421052631579
18	SVC	accuracy	rbf	0.7518796992481203
18	SVC	accuracy	rbf	0.7518796992481203
18	SVC	accuracy	linear	0.7368421052631579
18	SVC	accuracy	linear	0.7368421052631579
18	SVC	accuracy	rbf	0.7518796992481203
18	SVC	accuracy	rbf	0.7518796992481203
19	SVC	accuracy	linear	0.7443609022556391
19	SVC	accuracy	linear	0.7443609022556391
19	SVC	accuracy	rbf	0.7593984962406015
19	SVC	accuracy	rbf	0.7593984962406015
19	SVC	accuracy	linear	0.7443609022556391
19	SVC	accuracy	linear	0.7443609022556391
19	SVC	accuracy	rbf	0.7593984962406015
19	SVC	accuracy	rbf	0.7593984962406015
20	SVC	accuracy	linear	0.706766917293233
20	SVC	accuracy	linear	0.706766917293233
20	SVC	accuracy	rbf	0.7518796992481203
20	SVC	accuracy	rbf	0.7518796992481203
20	SVC	accuracy	linear	0.706766917293233
20	SVC	accuracy	linear	0.706766917293233
20	SVC	accuracy	rbf	0.7518796992481203
20	SVC	accuracy	rbf	0.7518796992481203
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	rbf	0.7238805970149254
21	SVC	accuracy	rbf	0.7238805970149254
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	rbf	0.7238805970149254
21	SVC	accuracy	rbf	0.7238805970149254
22	SVC	accuracy	linear	0.7164179104477612
22	SVC	accuracy	linear	0.7164179104477612
22	SVC	accuracy	rbf	0.753731343283582

22	SVC	accuracy	rbf	0.753731343283582
22	SVC	accuracy	linear	0.7164179104477612
22	SVC	accuracy	linear	0.7164179104477612
22	SVC	accuracy	rbf	0.753731343283582
22	SVC	accuracy	rbf	0.753731343283582
23	SVC	accuracy	linear	0.7368421052631579
23	SVC	accuracy	linear	0.7368421052631579
23	SVC	accuracy	rbf	0.7218045112781954
23	SVC	accuracy	rbf	0.7218045112781954
23	SVC	accuracy	linear	0.7368421052631579
23	SVC	accuracy	linear	0.7368421052631579
23	SVC	accuracy	rbf	0.7218045112781954
23	SVC	accuracy	rbf	0.7218045112781954
24	SVC	accuracy	linear	0.7819548872180451
24	SVC	accuracy	linear	0.7819548872180451
24	SVC	accuracy	rbf	0.7894736842105263
24	SVC	accuracy	rbf	0.7894736842105263
24	SVC	accuracy	linear	0.7819548872180451
24	SVC	accuracy	linear	0.7819548872180451
24	SVC	accuracy	rbf	0.7894736842105263
24	SVC	accuracy	rbf	0.7894736842105263
25	SVC	accuracy	linear	0.7443609022556391
25	SVC	accuracy	linear	0.7443609022556391
25	SVC	accuracy	rbf	0.7368421052631579
25	SVC	accuracy	rbf	0.7368421052631579
25	SVC	accuracy	linear	0.7443609022556391
25	SVC	accuracy	linear	0.7443609022556391
25	SVC	accuracy	rbf	0.7368421052631579
25	SVC	accuracy	rbf	0.7368421052631579
1	SVC	f1	linear	0.8181818181818181
1	SVC	f1	linear	0.8181818181818181
1	SVC	f1	rbf	0.8155339805825244
1	SVC	f1	rbf	0.8155339805825244
1	SVC	f1	linear	0.8181818181818181
1	SVC	f1	linear	0.8181818181818181
1	SVC	f1	rbf	0.8155339805825244
1	SVC	f1	rbf	0.8155339805825244
2	SVC	f1	linear	0.8082901554404145
2	SVC	f1	linear	0.8082901554404145
2	SVC	f1	rbf	0.8195121951219513
2	SVC	f1	rbf	0.8195121951219513
2	SVC	f1	linear	0.8082901554404145
2	SVC	f1	linear	0.8082901554404145

2	SVC	f1	rbf	0.8195121951219513
2	SVC	f1	rbf	0.8195121951219513
3	SVC	f1	linear	0.8059701492537312
3	SVC	f1	linear	0.8059701492537312
3	SVC	f1	rbf	0.8476190476190476
3	SVC	f1	rbf	0.8476190476190476
3	SVC	f1	linear	0.8059701492537312
3	SVC	f1	linear	0.8059701492537312
3	SVC	f1	rbf	0.8476190476190476
3	SVC	f1	rbf	0.8476190476190476
4	SVC	f1	linear	0.8241758241758241
4	SVC	f1	linear	0.8241758241758241
4	SVC	f1	rbf	0.8457711442786069
4	SVC	f1	rbf	0.8457711442786069
4	SVC	f1	linear	0.8241758241758241
4	SVC	f1	linear	0.8241758241758241
4	SVC	f1	rbf	0.8457711442786069
4	SVC	f1	rbf	0.8457711442786069
5	SVC	f1	linear	0.8205128205128205
5	SVC	f1	linear	0.8205128205128205
5	SVC	f1	rbf	0.8502415458937198
5	SVC	f1	rbf	0.8502415458937198
5	SVC	f1	linear	0.8205128205128205
5	SVC	f1	linear	0.8205128205128205
5	SVC	f1	rbf	0.8502415458937198
5	SVC	f1	rbf	0.8502415458937198
6	SVC	f1	linear	0.8282828282828283
6	SVC	f1	linear	0.8282828282828283
6	SVC	f1	rbf	0.8252427184466019
6	SVC	f1	rbf	0.8252427184466019
6	SVC	f1	linear	0.8282828282828283
6	SVC	f1	linear	0.8282828282828283
6	SVC	f1	rbf	0.8252427184466019
6	SVC	f1	rbf	0.8252427184466019
7	SVC	f1	linear	0.8421052631578947
7	SVC	f1	linear	0.8421052631578947
7	SVC	f1	rbf	0.8792270531400965
7	SVC	f1	rbf	0.8792270531400965
7	SVC	f1	linear	0.8421052631578947
7	SVC	f1	linear	0.8421052631578947
7	SVC	f1	rbf	0.8792270531400965
7	SVC	f1	rbf	0.8792270531400965
8	SVC	f1	linear	0.7918781725888324

8	SVC	f1	linear	0.7918781725888324
8	SVC	f1	rbf	0.8365384615384615
8	SVC	f1	rbf	0.8365384615384615
8	SVC	f1	linear	0.7918781725888324
8	SVC	f1	linear	0.7918781725888324
8	SVC	f1	rbf	0.8365384615384615
8	SVC	f1	rbf	0.8365384615384615
9	SVC	f1	linear	0.7999999999999999
9	SVC	f1	linear	0.7999999999999999
9	SVC	f1	rbf	0.7920792079207921
9	SVC	f1	rbf	0.7920792079207921
9	SVC	f1	linear	0.7999999999999999
9	SVC	f1	linear	0.7999999999999999
9	SVC	f1	rbf	0.7920792079207921
9	SVC	f1	rbf	0.7920792079207921
10	SVC	f1	linear	0.8631578947368421
10	SVC	f1	linear	0.8631578947368421
10	SVC	f1	rbf	0.826923076923077
10	SVC	f1	rbf	0.826923076923077
10	SVC	f1	linear	0.8631578947368421
10	SVC	f1	linear	0.8631578947368421
10	SVC	f1	rbf	0.826923076923077
10	SVC	f1	rbf	0.826923076923077
11	SVC	f1	linear	0.8042328042328043
11	SVC	f1	linear	0.8042328042328043
11	SVC	f1	rbf	0.8431372549019609
11	SVC	f1	rbf	0.8431372549019609
11	SVC	f1	linear	0.8042328042328043
11	SVC	f1	linear	0.8042328042328043
11	SVC	f1	rbf	0.8431372549019609
11	SVC	f1	rbf	0.8431372549019609
12	SVC	f1	linear	0.7724867724867724
12	SVC	f1	linear	0.7724867724867724
12	SVC	f1	rbf	0.8195121951219513
12	SVC	f1	rbf	0.8195121951219513
12	SVC	f1	linear	0.7724867724867724
12	SVC	f1	linear	0.7724867724867724
12	SVC	f1	rbf	0.8195121951219513
12	SVC	f1	rbf	0.8195121951219513
13	SVC	f1	linear	0.8426395939086294
13	SVC	f1	linear	0.8426395939086294
13	SVC	f1	rbf	0.8396226415094339
13	SVC	f1	rbf	0.8396226415094339

13	SVC	f1	linear	0.8426395939086294
13	SVC	f1	linear	0.8426395939086294
13	SVC	f1	rbf	0.8396226415094339
13	SVC	f1	rbf	0.8396226415094339
14	SVC	f1	linear	0.8241206030150753
14	SVC	f1	linear	0.8241206030150753
14	SVC	f1	rbf	0.822429906542056
14	SVC	f1	rbf	0.822429906542056
14	SVC	f1	linear	0.8241206030150753
14	SVC	f1	linear	0.8241206030150753
14	SVC	f1	rbf	0.822429906542056
14	SVC	f1	rbf	0.822429906542056
15	SVC	f1	linear	0.849740932642487
15	SVC	f1	linear	0.849740932642487
15	SVC	f1	rbf	0.8349514563106796
15	SVC	f1	rbf	0.8349514563106796
15	SVC	f1	linear	0.849740932642487
15	SVC	f1	linear	0.849740932642487
15	SVC	f1	rbf	0.8349514563106796
15	SVC	f1	rbf	0.8349514563106796
16	SVC	f1	linear	0.78
16	SVC	f1	linear	0.78
16	SVC	f1	rbf	0.7961165048543688
16	SVC	f1	rbf	0.7961165048543688
16	SVC	f1	linear	0.78
16	SVC	f1	linear	0.78
16	SVC	f1	rbf	0.7961165048543688
16	SVC	f1	rbf	0.7961165048543688
17	SVC	f1	linear	0.83248730964467
17	SVC	f1	linear	0.83248730964467
17	SVC	f1	rbf	0.8292682926829268
17	SVC	f1	rbf	0.8292682926829268
17	SVC	f1	linear	0.83248730964467
17	SVC	f1	linear	0.83248730964467
17	SVC	f1	rbf	0.8292682926829268
17	SVC	f1	rbf	0.8292682926829268
18	SVC	f1	linear	0.8128342245989305
18	SVC	f1	linear	0.8128342245989305
18	SVC	f1	rbf	0.8405797101449276
18	SVC	f1	rbf	0.8405797101449276
18	SVC	f1	linear	0.8128342245989305
18	SVC	f1	linear	0.8128342245989305
18	SVC	f1	rbf	0.8405797101449276

18	SVC	f1	rbf	0.8405797101449276
19	SVC	f1	linear	0.8282828282828283
19	SVC	f1	linear	0.8282828282828283
19	SVC	f1	rbf	0.8476190476190476
19	SVC	f1	rbf	0.8476190476190476
19	SVC	f1	linear	0.8282828282828283
19	SVC	f1	linear	0.8282828282828283
19	SVC	f1	rbf	0.8476190476190476
19	SVC	f1	rbf	0.8476190476190476
20	SVC	f1	linear	0.7999999999999999
20	SVC	f1	linear	0.7999999999999999
20	SVC	f1	rbf	0.8421052631578947
20	SVC	f1	rbf	0.8421052631578947
20	SVC	f1	linear	0.7999999999999999
20	SVC	f1	linear	0.7999999999999999
20	SVC	f1	rbf	0.8421052631578947
20	SVC	f1	rbf	0.8421052631578947
21	SVC	f1	linear	0.8191489361702128
21	SVC	f1	linear	0.8191489361702128
21	SVC	f1	rbf	0.8159203980099503
21	SVC	f1	rbf	0.8159203980099503
21	SVC	f1	linear	0.8191489361702128
21	SVC	f1	linear	0.8191489361702128
21	SVC	f1	rbf	0.8159203980099503
21	SVC	f1	rbf	0.8159203980099503
22	SVC	f1	linear	0.8118811881188118
22	SVC	f1	linear	0.8118811881188118
22	SVC	f1	rbf	0.8450704225352111
22	SVC	f1	rbf	0.8450704225352111
22	SVC	f1	linear	0.8118811881188118
22	SVC	f1	linear	0.8118811881188118
22	SVC	f1	rbf	0.8450704225352111
22	SVC	f1	rbf	0.8450704225352111
23	SVC	f1	linear	0.8275862068965516
23	SVC	f1	linear	0.8275862068965516
23	SVC	f1	rbf	0.8229665071770336
23	SVC	f1	rbf	0.8229665071770336
23	SVC	f1	linear	0.8275862068965516
23	SVC	f1	linear	0.8275862068965516
23	SVC	f1	rbf	0.8229665071770336
23	SVC	f1	rbf	0.8229665071770336
24	SVC	f1	linear	0.849740932642487
24	SVC	f1	linear	0.849740932642487

24	SVC	f1	rbf	0.8666666666666667
24	SVC	f1	rbf	0.8666666666666667
24	SVC	f1	linear	0.849740932642487
24	SVC	f1	linear	0.849740932642487
24	SVC	f1	rbf	0.8666666666666667
24	SVC	f1	rbf	0.8666666666666667
25	SVC	f1	linear	0.8229166666666666
25	SVC	f1	linear	0.8229166666666666
25	SVC	f1	rbf	0.8309178743961353
25	SVC	f1	rbf	0.8309178743961353
25	SVC	f1	linear	0.8229166666666666
25	SVC	f1	linear	0.8229166666666666
25	SVC	f1	rbf	0.8309178743961353
25	SVC	f1	rbf	0.8309178743961353

Table 28: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
1	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
1	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
1	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
1	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
1	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
1	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
1	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
2	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
2	DecisionTreeClassifier	accuracy	entropy	0.7388059701492538
2	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
2	DecisionTreeClassifier	accuracy	entropy	0.7388059701492538
2	DecisionTreeClassifier	accuracy	gini	0.664179104477612
2	DecisionTreeClassifier	accuracy	entropy	0.7313432835820896
2	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
2	DecisionTreeClassifier	accuracy	entropy	0.7313432835820896
3	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
3	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
3	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
3	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
3	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
3	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
3	DecisionTreeClassifier	accuracy	gini	0.6616541353383458

3	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
4	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
4	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
4	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
4	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
4	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
4	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
4	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
4	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
5	DecisionTreeClassifier	accuracy	gini	0.631578947368421
5	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
5	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
5	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
5	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
5	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
5	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
5	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
6	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
6	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
6	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
6	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
6	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
6	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
6	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
6	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
7	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
7	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
7	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
7	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
7	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
7	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
7	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
7	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
8	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
8	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
8	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
8	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
8	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
8	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
8	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
8	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
9	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
9	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647

9	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
9	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
9	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
9	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
9	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
9	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
10	DecisionTreeClassifier	accuracy	gini	0.706766917293233
10	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
10	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
10	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
10	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
10	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
10	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
10	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
11	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
11	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
11	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
11	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
11	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
11	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
11	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
11	DecisionTreeClassifier	accuracy	entropy	0.7388059701492538
12	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
12	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
12	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
12	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
12	DecisionTreeClassifier	accuracy	gini	0.6194029850746269
12	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
12	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
12	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
13	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
13	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
13	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
13	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
13	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
13	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
13	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
13	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
14	DecisionTreeClassifier	accuracy	gini	0.5789473684210527
14	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
14	DecisionTreeClassifier	accuracy	gini	0.5789473684210527
14	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
14	DecisionTreeClassifier	accuracy	gini	0.5789473684210527

14	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
14	DecisionTreeClassifier	accuracy	gini	0.5939849624060151
14	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
15	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
15	DecisionTreeClassifier	accuracy	entropy	0.7593984962406015
15	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
15	DecisionTreeClassifier	accuracy	entropy	0.7669172932330827
15	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
15	DecisionTreeClassifier	accuracy	entropy	0.7443609022556391
15	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
15	DecisionTreeClassifier	accuracy	entropy	0.7518796992481203
16	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
16	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
16	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
16	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
16	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
16	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
16	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
16	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
17	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
17	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
17	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
17	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
17	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
17	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
17	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
17	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
18	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
18	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
18	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
18	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
18	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
18	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
18	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
18	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
19	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
19	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
19	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
19	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
19	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
19	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
19	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
19	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706

20	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
20	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
20	DecisionTreeClassifier	accuracy	gini	0.631578947368421
20	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
20	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
20	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
20	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
20	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
21	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
21	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
21	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
21	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
21	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
21	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
21	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
21	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
22	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
22	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
22	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
22	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
22	DecisionTreeClassifier	accuracy	gini	0.664179104477612
22	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
22	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
22	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
23	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
23	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
23	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
23	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
23	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
23	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
23	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
23	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
24	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
24	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
24	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
24	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
24	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
24	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
24	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
24	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
25	DecisionTreeClassifier	accuracy	gini	0.631578947368421
25	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
25	DecisionTreeClassifier	accuracy	gini	0.6616541353383458

25	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
25	DecisionTreeClassifier	accuracy	gini	0.6090225563909775
25	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
25	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
25	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
1	DecisionTreeClassifier	f1	gini	0.7794871794871795
1	DecisionTreeClassifier	f1	entropy	0.7717391304347826
1	DecisionTreeClassifier	f1	gini	0.7731958762886597
1	DecisionTreeClassifier	f1	entropy	0.7486631016042781
1	DecisionTreeClassifier	f1	gini	0.7979274611398963
1	DecisionTreeClassifier	f1	entropy	0.7597765363128491
1	DecisionTreeClassifier	f1	gini	0.7916666666666665
1	DecisionTreeClassifier	f1	entropy	0.75
2	DecisionTreeClassifier	f1	gini	0.7362637362637362
2	DecisionTreeClassifier	f1	entropy	0.8108108108108109
2	DecisionTreeClassifier	f1	gini	0.7789473684210526
2	DecisionTreeClassifier	f1	entropy	0.8108108108108109
2	DecisionTreeClassifier	f1	gini	0.7643979057591621
2	DecisionTreeClassifier	f1	entropy	0.8085106382978723
2	DecisionTreeClassifier	f1	gini	0.7419354838709676
2	DecisionTreeClassifier	f1	entropy	0.8085106382978723
3	DecisionTreeClassifier	f1	gini	0.7748691099476439
3	DecisionTreeClassifier	f1	entropy	0.7513812154696133
3	DecisionTreeClassifier	f1	gini	0.7513227513227514
3	DecisionTreeClassifier	f1	entropy	0.7634408602150536
3	DecisionTreeClassifier	f1	gini	0.7619047619047619
3	DecisionTreeClassifier	f1	entropy	0.7650273224043715
3	DecisionTreeClassifier	f1	gini	0.7567567567567567
3	DecisionTreeClassifier	f1	entropy	0.7849462365591398
4	DecisionTreeClassifier	f1	gini	0.7741935483870968
4	DecisionTreeClassifier	f1	entropy	0.7849462365591398
4	DecisionTreeClassifier	f1	gini	0.7777777777777778
4	DecisionTreeClassifier	f1	entropy	0.7956989247311826
4	DecisionTreeClassifier	f1	gini	0.7624309392265195
4	DecisionTreeClassifier	f1	entropy	0.7826086956521738
4	DecisionTreeClassifier	f1	gini	0.7741935483870968
4	DecisionTreeClassifier	f1	entropy	0.7914438502673796
5	DecisionTreeClassifier	f1	gini	0.7262569832402235
5	DecisionTreeClassifier	f1	entropy	0.7351351351351352
5	DecisionTreeClassifier	f1	gini	0.7386363636363636
5	DecisionTreeClassifier	f1	entropy	0.7340425531914895
5	DecisionTreeClassifier	f1	gini	0.7555555555555556
5	DecisionTreeClassifier	f1	entropy	0.7379679144385027

5	DecisionTreeClassifier	f1	gini	0.7540983606557377
5	DecisionTreeClassifier	f1	entropy	0.7173913043478262
6	DecisionTreeClassifier	f1	gini	0.7783783783783782
6	DecisionTreeClassifier	f1	entropy	0.7444444444444445
6	DecisionTreeClassifier	f1	gini	0.7891891891891892
6	DecisionTreeClassifier	f1	entropy	0.770053475935829
6	DecisionTreeClassifier	f1	gini	0.8042328042328043
6	DecisionTreeClassifier	f1	entropy	0.7526881720430109
6	DecisionTreeClassifier	f1	gini	0.7542857142857142
6	DecisionTreeClassifier	f1	entropy	0.7868852459016393
7	DecisionTreeClassifier	f1	gini	0.8041237113402062
7	DecisionTreeClassifier	f1	entropy	0.7741935483870968
7	DecisionTreeClassifier	f1	gini	0.7789473684210526
7	DecisionTreeClassifier	f1	entropy	0.7741935483870968
7	DecisionTreeClassifier	f1	gini	0.8020833333333333
7	DecisionTreeClassifier	f1	entropy	0.7675675675675676
7	DecisionTreeClassifier	f1	gini	0.7958115183246073
7	DecisionTreeClassifier	f1	entropy	0.7526881720430109
8	DecisionTreeClassifier	f1	gini	0.7835051546391754
8	DecisionTreeClassifier	f1	entropy	0.7979274611398963
8	DecisionTreeClassifier	f1	gini	0.7794871794871795
8	DecisionTreeClassifier	f1	entropy	0.7875647668393783
8	DecisionTreeClassifier	f1	gini	0.77720207253886
8	DecisionTreeClassifier	f1	entropy	0.7916666666666666
8	DecisionTreeClassifier	f1	gini	0.7604166666666667
8	DecisionTreeClassifier	f1	entropy	0.7853403141361257
9	DecisionTreeClassifier	f1	gini	0.7812499999999999
9	DecisionTreeClassifier	f1	entropy	0.7526881720430108
9	DecisionTreeClassifier	f1	gini	0.7789473684210526
9	DecisionTreeClassifier	f1	entropy	0.7322404371584699
9	DecisionTreeClassifier	f1	gini	0.7853403141361257
9	DecisionTreeClassifier	f1	entropy	0.7362637362637361
9	DecisionTreeClassifier	f1	gini	0.7748691099476439
9	DecisionTreeClassifier	f1	entropy	0.7222222222222223
10	DecisionTreeClassifier	f1	gini	0.7979274611398963
10	DecisionTreeClassifier	f1	entropy	0.7643979057591623
10	DecisionTreeClassifier	f1	gini	0.8041237113402062
10	DecisionTreeClassifier	f1	entropy	0.7593582887700534
10	DecisionTreeClassifier	f1	gini	0.7789473684210526
10	DecisionTreeClassifier	f1	entropy	0.7578947368421053
10	DecisionTreeClassifier	f1	gini	0.8125
10	DecisionTreeClassifier	f1	entropy	0.7708333333333333
11	DecisionTreeClassifier	f1	gini	0.7894736842105263

11	DecisionTreeClassifier	f1	entropy	0.7914438502673796
11	DecisionTreeClassifier	f1	gini	0.745945945945946
11	DecisionTreeClassifier	f1	entropy	0.7872340425531915
11	DecisionTreeClassifier	f1	gini	0.75
11	DecisionTreeClassifier	f1	entropy	0.7914438502673796
11	DecisionTreeClassifier	f1	gini	0.7322404371584699
11	DecisionTreeClassifier	f1	entropy	0.8186528497409327
12	DecisionTreeClassifier	f1	gini	0.7191011235955055
12	DecisionTreeClassifier	f1	entropy	0.7593582887700534
12	DecisionTreeClassifier	f1	gini	0.75
12	DecisionTreeClassifier	f1	entropy	0.7526881720430109
12	DecisionTreeClassifier	f1	gini	0.7182320441988951
12	DecisionTreeClassifier	f1	entropy	0.7431693989071038
12	DecisionTreeClassifier	f1	gini	0.7282608695652174
12	DecisionTreeClassifier	f1	entropy	0.7362637362637362
13	DecisionTreeClassifier	f1	gini	0.7659574468085107
13	DecisionTreeClassifier	f1	entropy	0.7431693989071038
13	DecisionTreeClassifier	f1	gini	0.7659574468085107
13	DecisionTreeClassifier	f1	entropy	0.7540983606557377
13	DecisionTreeClassifier	f1	gini	0.7741935483870968
13	DecisionTreeClassifier	f1	entropy	0.7675675675675675
13	DecisionTreeClassifier	f1	gini	0.7619047619047619
13	DecisionTreeClassifier	f1	entropy	0.7650273224043715
14	DecisionTreeClassifier	f1	gini	0.6923076923076923
14	DecisionTreeClassifier	f1	entropy	0.7812499999999999
14	DecisionTreeClassifier	f1	gini	0.6888888888888889
14	DecisionTreeClassifier	f1	entropy	0.7708333333333333
14	DecisionTreeClassifier	f1	gini	0.6956521739130436
14	DecisionTreeClassifier	f1	entropy	0.7643979057591623
14	DecisionTreeClassifier	f1	gini	0.7096774193548389
14	DecisionTreeClassifier	f1	entropy	0.7643979057591623
15	DecisionTreeClassifier	f1	gini	0.7674418604651164
15	DecisionTreeClassifier	f1	entropy	0.8260869565217392
15	DecisionTreeClassifier	f1	gini	0.7428571428571429
15	DecisionTreeClassifier	f1	entropy	0.8306010928961749
15	DecisionTreeClassifier	f1	gini	0.7709497206703911
15	DecisionTreeClassifier	f1	entropy	0.8131868131868132
15	DecisionTreeClassifier	f1	gini	0.7602339181286552
15	DecisionTreeClassifier	f1	entropy	0.823529411764706
16	DecisionTreeClassifier	f1	gini	0.75
16	DecisionTreeClassifier	f1	entropy	0.7783783783783782
16	DecisionTreeClassifier	f1	gini	0.745945945945946
16	DecisionTreeClassifier	f1	entropy	0.770053475935829

16	DecisionTreeClassifier	f1	gini	0.7553191489361702
16	DecisionTreeClassifier	f1	entropy	0.7872340425531915
16	DecisionTreeClassifier	f1	gini	0.7407407407407407
16	DecisionTreeClassifier	f1	entropy	0.7872340425531915
17	DecisionTreeClassifier	f1	gini	0.7578947368421053
17	DecisionTreeClassifier	f1	entropy	0.761904761904762
17	DecisionTreeClassifier	f1	gini	0.7708333333333333
17	DecisionTreeClassifier	f1	entropy	0.7446808510638298
17	DecisionTreeClassifier	f1	gini	0.7684210526315789
17	DecisionTreeClassifier	f1	entropy	0.7812500000000001
17	DecisionTreeClassifier	f1	gini	0.7419354838709676
17	DecisionTreeClassifier	f1	entropy	0.774869109947644
18	DecisionTreeClassifier	f1	gini	0.7849462365591398
18	DecisionTreeClassifier	f1	entropy	0.7513812154696133
18	DecisionTreeClassifier	f1	gini	0.7802197802197802
18	DecisionTreeClassifier	f1	entropy	0.7624309392265195
18	DecisionTreeClassifier	f1	gini	0.8042328042328043
18	DecisionTreeClassifier	f1	entropy	0.7608695652173912
18	DecisionTreeClassifier	f1	gini	0.808743169398907
18	DecisionTreeClassifier	f1	entropy	0.7431693989071038
19	DecisionTreeClassifier	f1	gini	0.7734806629834253
19	DecisionTreeClassifier	f1	entropy	0.7802197802197802
19	DecisionTreeClassifier	f1	gini	0.7759562841530053
19	DecisionTreeClassifier	f1	entropy	0.7472527472527474
19	DecisionTreeClassifier	f1	gini	0.7849462365591398
19	DecisionTreeClassifier	f1	entropy	0.7802197802197802
19	DecisionTreeClassifier	f1	gini	0.7675675675675675
19	DecisionTreeClassifier	f1	entropy	0.7734806629834253
20	DecisionTreeClassifier	f1	gini	0.7619047619047619
20	DecisionTreeClassifier	f1	entropy	0.7936507936507936
20	DecisionTreeClassifier	f1	gini	0.7407407407407406
20	DecisionTreeClassifier	f1	entropy	0.7717391304347825
20	DecisionTreeClassifier	f1	gini	0.7311827956989246
20	DecisionTreeClassifier	f1	entropy	0.7634408602150536
20	DecisionTreeClassifier	f1	gini	0.7431693989071038
20	DecisionTreeClassifier	f1	entropy	0.7717391304347825
21	DecisionTreeClassifier	f1	gini	0.7391304347826088
21	DecisionTreeClassifier	f1	entropy	0.7759562841530055
21	DecisionTreeClassifier	f1	gini	0.7608695652173912
21	DecisionTreeClassifier	f1	entropy	0.770053475935829
21	DecisionTreeClassifier	f1	gini	0.7486631016042781
21	DecisionTreeClassifier	f1	entropy	0.7783783783783782
21	DecisionTreeClassifier	f1	gini	0.770053475935829

21	DecisionTreeClassifier	f1	entropy	0.7650273224043715
22	DecisionTreeClassifier	f1	gini	0.7553191489361702
22	DecisionTreeClassifier	f1	entropy	0.7849462365591399
22	DecisionTreeClassifier	f1	gini	0.7191011235955055
22	DecisionTreeClassifier	f1	entropy	0.7789473684210526
22	DecisionTreeClassifier	f1	gini	0.7593582887700534
22	DecisionTreeClassifier	f1	entropy	0.7812500000000001
22	DecisionTreeClassifier	f1	gini	0.7403314917127071
22	DecisionTreeClassifier	f1	entropy	0.7659574468085105
23	DecisionTreeClassifier	f1	gini	0.7624309392265195
23	DecisionTreeClassifier	f1	entropy	0.7379679144385027
23	DecisionTreeClassifier	f1	gini	0.7415730337078652
23	DecisionTreeClassifier	f1	entropy	0.7540983606557377
23	DecisionTreeClassifier	f1	gini	0.7624309392265195
23	DecisionTreeClassifier	f1	entropy	0.7204301075268817
23	DecisionTreeClassifier	f1	gini	0.7613636363636364
23	DecisionTreeClassifier	f1	entropy	0.7351351351351352
24	DecisionTreeClassifier	f1	gini	0.7472527472527474
24	DecisionTreeClassifier	f1	entropy	0.7956989247311826
24	DecisionTreeClassifier	f1	gini	0.7759562841530053
24	DecisionTreeClassifier	f1	entropy	0.8
24	DecisionTreeClassifier	f1	gini	0.7624309392265195
24	DecisionTreeClassifier	f1	entropy	0.7807486631016043
24	DecisionTreeClassifier	f1	gini	0.7650273224043715
24	DecisionTreeClassifier	f1	entropy	0.7783783783783783
25	DecisionTreeClassifier	f1	gini	0.7322404371584699
25	DecisionTreeClassifier	f1	entropy	0.7340425531914895
25	DecisionTreeClassifier	f1	gini	0.7513812154696133
25	DecisionTreeClassifier	f1	entropy	0.7593582887700534
25	DecisionTreeClassifier	f1	gini	0.7173913043478262
25	DecisionTreeClassifier	f1	entropy	0.7650273224043715
25	DecisionTreeClassifier	f1	gini	0.7472527472527474
25	DecisionTreeClassifier	f1	entropy	0.7741935483870968

Table 29: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.7164179104477612
1	RandomForestClassifier	accuracy	5	0.6716417910447762
1	RandomForestClassifier	accuracy	5	0.6865671641791045
1	RandomForestClassifier	accuracy	5	0.664179104477612

1	RandomForestClassifier	accuracy	50	0.7686567164179104
1	RandomForestClassifier	accuracy	50	0.7835820895522388
1	RandomForestClassifier	accuracy	50	0.7611940298507462
1	RandomForestClassifier	accuracy	50	0.7835820895522388
2	RandomForestClassifier	accuracy	5	0.5864661654135338
2	RandomForestClassifier	accuracy	5	0.6541353383458647
2	RandomForestClassifier	accuracy	5	0.7142857142857143
2	RandomForestClassifier	accuracy	5	0.6917293233082706
2	RandomForestClassifier	accuracy	50	0.706766917293233
2	RandomForestClassifier	accuracy	50	0.6842105263157895
2	RandomForestClassifier	accuracy	50	0.6842105263157895
2	RandomForestClassifier	accuracy	50	0.6992481203007519
3	RandomForestClassifier	accuracy	5	0.7142857142857143
3	RandomForestClassifier	accuracy	5	0.7443609022556391
3	RandomForestClassifier	accuracy	5	0.7218045112781954
3	RandomForestClassifier	accuracy	5	0.7293233082706767
3	RandomForestClassifier	accuracy	50	0.7142857142857143
3	RandomForestClassifier	accuracy	50	0.7744360902255639
3	RandomForestClassifier	accuracy	50	0.7819548872180451
3	RandomForestClassifier	accuracy	50	0.7894736842105263
4	RandomForestClassifier	accuracy	5	0.6992481203007519
4	RandomForestClassifier	accuracy	5	0.6541353383458647
4	RandomForestClassifier	accuracy	5	0.7142857142857143
4	RandomForestClassifier	accuracy	5	0.7368421052631579
4	RandomForestClassifier	accuracy	50	0.7518796992481203
4	RandomForestClassifier	accuracy	50	0.7293233082706767
4	RandomForestClassifier	accuracy	50	0.7293233082706767
4	RandomForestClassifier	accuracy	50	0.7142857142857143
5	RandomForestClassifier	accuracy	5	0.7142857142857143
5	RandomForestClassifier	accuracy	5	0.7443609022556391
5	RandomForestClassifier	accuracy	5	0.6992481203007519
5	RandomForestClassifier	accuracy	5	0.6616541353383458
5	RandomForestClassifier	accuracy	50	0.7669172932330827
5	RandomForestClassifier	accuracy	50	0.7443609022556391
5	RandomForestClassifier	accuracy	50	0.7518796992481203
5	RandomForestClassifier	accuracy	50	0.7218045112781954
6	RandomForestClassifier	accuracy	5	0.746268656716418
6	RandomForestClassifier	accuracy	5	0.6940298507462687
6	RandomForestClassifier	accuracy	5	0.7164179104477612
6	RandomForestClassifier	accuracy	5	0.746268656716418
6	RandomForestClassifier	accuracy	50	0.7761194029850746
6	RandomForestClassifier	accuracy	50	0.753731343283582
6	RandomForestClassifier	accuracy	50	0.7611940298507462

6	RandomForestClassifier	accuracy	50	0.7761194029850746
7	RandomForestClassifier	accuracy	5	0.6842105263157895
7	RandomForestClassifier	accuracy	5	0.7669172932330827
7	RandomForestClassifier	accuracy	5	0.7518796992481203
7	RandomForestClassifier	accuracy	5	0.7293233082706767
7	RandomForestClassifier	accuracy	50	0.7368421052631579
7	RandomForestClassifier	accuracy	50	0.7368421052631579
7	RandomForestClassifier	accuracy	50	0.7443609022556391
7	RandomForestClassifier	accuracy	50	0.7443609022556391
8	RandomForestClassifier	accuracy	5	0.6691729323308271
8	RandomForestClassifier	accuracy	5	0.7142857142857143
8	RandomForestClassifier	accuracy	5	0.6691729323308271
8	RandomForestClassifier	accuracy	5	0.5939849624060151
8	RandomForestClassifier	accuracy	50	0.6390977443609023
8	RandomForestClassifier	accuracy	50	0.7293233082706767
8	RandomForestClassifier	accuracy	50	0.6992481203007519
8	RandomForestClassifier	accuracy	50	0.7293233082706767
9	RandomForestClassifier	accuracy	5	0.7218045112781954
9	RandomForestClassifier	accuracy	5	0.7218045112781954
9	RandomForestClassifier	accuracy	5	0.7368421052631579
9	RandomForestClassifier	accuracy	5	0.7293233082706767
9	RandomForestClassifier	accuracy	50	0.7518796992481203
9	RandomForestClassifier	accuracy	50	0.7368421052631579
9	RandomForestClassifier	accuracy	50	0.7293233082706767
9	RandomForestClassifier	accuracy	50	0.7293233082706767
10	RandomForestClassifier	accuracy	5	0.7142857142857143
10	RandomForestClassifier	accuracy	5	0.6766917293233082
10	RandomForestClassifier	accuracy	5	0.7368421052631579
10	RandomForestClassifier	accuracy	5	0.7218045112781954
10	RandomForestClassifier	accuracy	50	0.7518796992481203
10	RandomForestClassifier	accuracy	50	0.7744360902255639
10	RandomForestClassifier	accuracy	50	0.7593984962406015
10	RandomForestClassifier	accuracy	50	0.7443609022556391
11	RandomForestClassifier	accuracy	5	0.7611940298507462
11	RandomForestClassifier	accuracy	5	0.753731343283582
11	RandomForestClassifier	accuracy	5	0.753731343283582
11	RandomForestClassifier	accuracy	5	0.753731343283582
11	RandomForestClassifier	accuracy	50	0.7686567164179104
11	RandomForestClassifier	accuracy	50	0.753731343283582
11	RandomForestClassifier	accuracy	50	0.746268656716418
11	RandomForestClassifier	accuracy	50	0.7611940298507462
12	RandomForestClassifier	accuracy	5	0.7443609022556391
12	RandomForestClassifier	accuracy	5	0.7593984962406015

12	RandomForestClassifier	accuracy	5	0.7518796992481203
12	RandomForestClassifier	accuracy	5	0.7969924812030075
12	RandomForestClassifier	accuracy	50	0.7142857142857143
12	RandomForestClassifier	accuracy	50	0.7518796992481203
12	RandomForestClassifier	accuracy	50	0.7293233082706767
12	RandomForestClassifier	accuracy	50	0.7518796992481203
13	RandomForestClassifier	accuracy	5	0.631578947368421
13	RandomForestClassifier	accuracy	5	0.631578947368421
13	RandomForestClassifier	accuracy	5	0.6616541353383458
13	RandomForestClassifier	accuracy	5	0.5864661654135338
13	RandomForestClassifier	accuracy	50	0.6390977443609023
13	RandomForestClassifier	accuracy	50	0.6992481203007519
13	RandomForestClassifier	accuracy	50	0.6390977443609023
13	RandomForestClassifier	accuracy	50	0.6466165413533834
14	RandomForestClassifier	accuracy	5	0.706766917293233
14	RandomForestClassifier	accuracy	5	0.706766917293233
14	RandomForestClassifier	accuracy	5	0.706766917293233
14	RandomForestClassifier	accuracy	5	0.6541353383458647
14	RandomForestClassifier	accuracy	50	0.7518796992481203
14	RandomForestClassifier	accuracy	50	0.7669172932330827
14	RandomForestClassifier	accuracy	50	0.7669172932330827
14	RandomForestClassifier	accuracy	50	0.7518796992481203
15	RandomForestClassifier	accuracy	5	0.7218045112781954
15	RandomForestClassifier	accuracy	5	0.6766917293233082
15	RandomForestClassifier	accuracy	5	0.6541353383458647
15	RandomForestClassifier	accuracy	5	0.7218045112781954
15	RandomForestClassifier	accuracy	50	0.7593984962406015
15	RandomForestClassifier	accuracy	50	0.7293233082706767
15	RandomForestClassifier	accuracy	50	0.7669172932330827
15	RandomForestClassifier	accuracy	50	0.7819548872180451
16	RandomForestClassifier	accuracy	5	0.6716417910447762
16	RandomForestClassifier	accuracy	5	0.7313432835820896
16	RandomForestClassifier	accuracy	5	0.6940298507462687
16	RandomForestClassifier	accuracy	5	0.7014925373134329
16	RandomForestClassifier	accuracy	50	0.7238805970149254
16	RandomForestClassifier	accuracy	50	0.7089552238805971
16	RandomForestClassifier	accuracy	50	0.7238805970149254
16	RandomForestClassifier	accuracy	50	0.753731343283582
17	RandomForestClassifier	accuracy	5	0.706766917293233
17	RandomForestClassifier	accuracy	5	0.7593984962406015
17	RandomForestClassifier	accuracy	5	0.7593984962406015
17	RandomForestClassifier	accuracy	5	0.6766917293233082
17	RandomForestClassifier	accuracy	50	0.7744360902255639

17	RandomForestClassifier	accuracy	50	0.7518796992481203
17	RandomForestClassifier	accuracy	50	0.7593984962406015
17	RandomForestClassifier	accuracy	50	0.7518796992481203
18	RandomForestClassifier	accuracy	5	0.7669172932330827
18	RandomForestClassifier	accuracy	5	0.7443609022556391
18	RandomForestClassifier	accuracy	5	0.706766917293233
18	RandomForestClassifier	accuracy	5	0.6917293233082706
18	RandomForestClassifier	accuracy	50	0.7443609022556391
18	RandomForestClassifier	accuracy	50	0.7368421052631579
18	RandomForestClassifier	accuracy	50	0.7443609022556391
18	RandomForestClassifier	accuracy	50	0.7443609022556391
19	RandomForestClassifier	accuracy	5	0.6992481203007519
19	RandomForestClassifier	accuracy	5	0.706766917293233
19	RandomForestClassifier	accuracy	5	0.7969924812030075
19	RandomForestClassifier	accuracy	5	0.6842105263157895
19	RandomForestClassifier	accuracy	50	0.7518796992481203
19	RandomForestClassifier	accuracy	50	0.7218045112781954
19	RandomForestClassifier	accuracy	50	0.7518796992481203
19	RandomForestClassifier	accuracy	50	0.7218045112781954
20	RandomForestClassifier	accuracy	5	0.7218045112781954
20	RandomForestClassifier	accuracy	5	0.6917293233082706
20	RandomForestClassifier	accuracy	5	0.7368421052631579
20	RandomForestClassifier	accuracy	5	0.706766917293233
20	RandomForestClassifier	accuracy	50	0.7518796992481203
20	RandomForestClassifier	accuracy	50	0.7368421052631579
20	RandomForestClassifier	accuracy	50	0.7368421052631579
20	RandomForestClassifier	accuracy	50	0.7518796992481203
21	RandomForestClassifier	accuracy	5	0.6940298507462687
21	RandomForestClassifier	accuracy	5	0.753731343283582
21	RandomForestClassifier	accuracy	5	0.7014925373134329
21	RandomForestClassifier	accuracy	5	0.7238805970149254
21	RandomForestClassifier	accuracy	50	0.7761194029850746
21	RandomForestClassifier	accuracy	50	0.7910447761194029
21	RandomForestClassifier	accuracy	50	0.7388059701492538
21	RandomForestClassifier	accuracy	50	0.7089552238805971
22	RandomForestClassifier	accuracy	5	0.7142857142857143
22	RandomForestClassifier	accuracy	5	0.6842105263157895
22	RandomForestClassifier	accuracy	5	0.7142857142857143
22	RandomForestClassifier	accuracy	5	0.7443609022556391
22	RandomForestClassifier	accuracy	50	0.7368421052631579
22	RandomForestClassifier	accuracy	50	0.6992481203007519
22	RandomForestClassifier	accuracy	50	0.7443609022556391
22	RandomForestClassifier	accuracy	50	0.7593984962406015

23	RandomForestClassifier	accuracy	5	0.7218045112781954
23	RandomForestClassifier	accuracy	5	0.7819548872180451
23	RandomForestClassifier	accuracy	5	0.6616541353383458
23	RandomForestClassifier	accuracy	5	0.6541353383458647
23	RandomForestClassifier	accuracy	50	0.8120300751879699
23	RandomForestClassifier	accuracy	50	0.7969924812030075
23	RandomForestClassifier	accuracy	50	0.8120300751879699
23	RandomForestClassifier	accuracy	50	0.7744360902255639
24	RandomForestClassifier	accuracy	5	0.6917293233082706
24	RandomForestClassifier	accuracy	5	0.6992481203007519
24	RandomForestClassifier	accuracy	5	0.7368421052631579
24	RandomForestClassifier	accuracy	5	0.6691729323308271
24	RandomForestClassifier	accuracy	50	0.6766917293233082
24	RandomForestClassifier	accuracy	50	0.706766917293233
24	RandomForestClassifier	accuracy	50	0.7218045112781954
24	RandomForestClassifier	accuracy	50	0.7142857142857143
25	RandomForestClassifier	accuracy	5	0.7142857142857143
25	RandomForestClassifier	accuracy	5	0.7142857142857143
25	RandomForestClassifier	accuracy	5	0.7142857142857143
25	RandomForestClassifier	accuracy	5	0.6992481203007519
25	RandomForestClassifier	accuracy	50	0.7443609022556391
25	RandomForestClassifier	accuracy	50	0.7744360902255639
25	RandomForestClassifier	accuracy	50	0.7518796992481203
25	RandomForestClassifier	accuracy	50	0.7368421052631579
1	RandomForestClassifier	f1	5	0.8099999999999999
1	RandomForestClassifier	f1	5	0.7821782178217823
1	RandomForestClassifier	f1	5	0.7857142857142858
1	RandomForestClassifier	f1	5	0.761904761904762
1	RandomForestClassifier	f1	50	0.848780487804878
1	RandomForestClassifier	f1	50	0.8585365853658538
1	RandomForestClassifier	f1	50	0.8461538461538461
1	RandomForestClassifier	f1	50	0.859903381642512
2	RandomForestClassifier	f1	5	0.717948717948718
2	RandomForestClassifier	f1	5	0.7653061224489796
2	RandomForestClassifier	f1	5	0.8137254901960784
2	RandomForestClassifier	f1	5	0.7939698492462313
2	RandomForestClassifier	f1	50	0.8078817733990148
2	RandomForestClassifier	f1	50	0.7941176470588235
2	RandomForestClassifier	f1	50	0.796116504854369
2	RandomForestClassifier	f1	50	0.7999999999999999
3	RandomForestClassifier	f1	5	0.8080808080808081
3	RandomForestClassifier	f1	5	0.826530612244898
3	RandomForestClassifier	f1	5	0.8082901554404146

3	RandomForestClassifier	f1	5	0.8125
3	RandomForestClassifier	f1	50	0.8173076923076923
3	RandomForestClassifier	f1	50	0.8514851485148515
3	RandomForestClassifier	f1	50	0.8557213930348259
3	RandomForestClassifier	f1	50	0.86
4	RandomForestClassifier	f1	5	0.801980198019802
4	RandomForestClassifier	f1	5	0.7553191489361704
4	RandomForestClassifier	f1	5	0.8
4	RandomForestClassifier	f1	5	0.8205128205128205
4	RandomForestClassifier	f1	50	0.8390243902439024
4	RandomForestClassifier	f1	50	0.8181818181818182
4	RandomForestClassifier	f1	50	0.823529411764706
4	RandomForestClassifier	f1	50	0.8173076923076923
5	RandomForestClassifier	f1	5	0.8118811881188119
5	RandomForestClassifier	f1	5	0.8191489361702128
5	RandomForestClassifier	f1	5	0.7938144329896908
5	RandomForestClassifier	f1	5	0.7643979057591623
5	RandomForestClassifier	f1	50	0.8426395939086294
5	RandomForestClassifier	f1	50	0.826530612244898
5	RandomForestClassifier	f1	50	0.83248730964467
5	RandomForestClassifier	f1	50	0.8140703517587939
6	RandomForestClassifier	f1	5	0.8316831683168316
6	RandomForestClassifier	f1	5	0.8
6	RandomForestClassifier	f1	5	0.8118811881188118
6	RandomForestClassifier	f1	5	0.8365384615384615
6	RandomForestClassifier	f1	50	0.8571428571428572
6	RandomForestClassifier	f1	50	0.8465116279069769
6	RandomForestClassifier	f1	50	0.8461538461538461
6	RandomForestClassifier	f1	50	0.8571428571428572
7	RandomForestClassifier	f1	5	0.79
7	RandomForestClassifier	f1	5	0.841025641025641
7	RandomForestClassifier	f1	5	0.8290155440414508
7	RandomForestClassifier	f1	5	0.8144329896907216
7	RandomForestClassifier	f1	50	0.8275862068965516
7	RandomForestClassifier	f1	50	0.8223350253807107
7	RandomForestClassifier	f1	50	0.8333333333333334
7	RandomForestClassifier	f1	50	0.8316831683168318
8	RandomForestClassifier	f1	5	0.7843137254901962
8	RandomForestClassifier	f1	5	0.8061224489795918
8	RandomForestClassifier	f1	5	0.7731958762886598
8	RandomForestClassifier	f1	5	0.7157894736842105
8	RandomForestClassifier	f1	50	0.7647058823529411
8	RandomForestClassifier	f1	50	0.8252427184466019

8	RandomForestClassifier	f1	50	0.7999999999999999
8	RandomForestClassifier	f1	50	0.82
9	RandomForestClassifier	f1	5	0.8082901554404146
9	RandomForestClassifier	f1	5	0.8042328042328043
9	RandomForestClassifier	f1	5	0.8148148148148148
9	RandomForestClassifier	f1	5	0.8043478260869565
9	RandomForestClassifier	f1	50	0.835820895522388
9	RandomForestClassifier	f1	50	0.8223350253807107
9	RandomForestClassifier	f1	50	0.82
9	RandomForestClassifier	f1	50	0.82
10	RandomForestClassifier	f1	5	0.8020833333333334
10	RandomForestClassifier	f1	5	0.7881773399014779
10	RandomForestClassifier	f1	5	0.808743169398907
10	RandomForestClassifier	f1	5	0.8082901554404146
10	RandomForestClassifier	f1	50	0.8341708542713568
10	RandomForestClassifier	f1	50	0.8484848484848486
10	RandomForestClassifier	f1	50	0.84
10	RandomForestClassifier	f1	50	0.8316831683168318
11	RandomForestClassifier	f1	5	0.8350515463917526
11	RandomForestClassifier	f1	5	0.8341708542713567
11	RandomForestClassifier	f1	5	0.8358208955223881
11	RandomForestClassifier	f1	5	0.8290155440414508
11	RandomForestClassifier	f1	50	0.8502415458937199
11	RandomForestClassifier	f1	50	0.8390243902439024
11	RandomForestClassifier	f1	50	0.8333333333333334
11	RandomForestClassifier	f1	50	0.8400000000000001
12	RandomForestClassifier	f1	5	0.8282828282828283
12	RandomForestClassifier	f1	5	0.836734693877551
12	RandomForestClassifier	f1	5	0.8307692307692308
12	RandomForestClassifier	f1	5	0.8643216080402009
12	RandomForestClassifier	f1	50	0.8137254901960784
12	RandomForestClassifier	f1	50	0.8405797101449276
12	RandomForestClassifier	f1	50	0.8285714285714285
12	RandomForestClassifier	f1	50	0.8436018957345972
13	RandomForestClassifier	f1	5	0.7434554973821991
13	RandomForestClassifier	f1	5	0.7407407407407406
13	RandomForestClassifier	f1	5	0.7692307692307693
13	RandomForestClassifier	f1	5	0.7208121827411167
13	RandomForestClassifier	f1	50	0.7551020408163266
13	RandomForestClassifier	f1	50	0.7979797979797979
13	RandomForestClassifier	f1	50	0.7551020408163266
13	RandomForestClassifier	f1	50	0.7638190954773869
14	RandomForestClassifier	f1	5	0.8040201005025127

14	RandomForestClassifier	f1	5	0.8040201005025127
14	RandomForestClassifier	f1	5	0.7999999999999999
14	RandomForestClassifier	f1	5	0.7578947368421053
14	RandomForestClassifier	f1	50	0.8405797101449276
14	RandomForestClassifier	f1	50	0.8502415458937198
14	RandomForestClassifier	f1	50	0.8502415458937198
14	RandomForestClassifier	f1	50	0.8405797101449276
15	RandomForestClassifier	f1	5	0.8082901554404146
15	RandomForestClassifier	f1	5	0.770053475935829
15	RandomForestClassifier	f1	5	0.7653061224489796
15	RandomForestClassifier	f1	5	0.8082901554404146
15	RandomForestClassifier	f1	50	0.8415841584158414
15	RandomForestClassifier	f1	50	0.8181818181818182
15	RandomForestClassifier	f1	50	0.8442211055276382
15	RandomForestClassifier	f1	50	0.852791878172589
16	RandomForestClassifier	f1	5	0.7659574468085105
16	RandomForestClassifier	f1	5	0.8163265306122448
16	RandomForestClassifier	f1	5	0.7918781725888325
16	RandomForestClassifier	f1	5	0.7938144329896908
16	RandomForestClassifier	f1	50	0.8159203980099503
16	RandomForestClassifier	f1	50	0.8078817733990149
16	RandomForestClassifier	f1	50	0.8177339901477833
16	RandomForestClassifier	f1	50	0.8374384236453202
17	RandomForestClassifier	f1	5	0.8097560975609757
17	RandomForestClassifier	f1	5	0.8383838383838383
17	RandomForestClassifier	f1	5	0.8333333333333333
17	RandomForestClassifier	f1	5	0.7794871794871795
17	RandomForestClassifier	f1	50	0.8529411764705881
17	RandomForestClassifier	f1	50	0.8390243902439024
17	RandomForestClassifier	f1	50	0.8431372549019608
17	RandomForestClassifier	f1	50	0.8405797101449276
18	RandomForestClassifier	f1	5	0.8457711442786069
18	RandomForestClassifier	f1	5	0.826530612244898
18	RandomForestClassifier	f1	5	0.8059701492537312
18	RandomForestClassifier	f1	5	0.7918781725888324
18	RandomForestClassifier	f1	50	0.83
18	RandomForestClassifier	f1	50	0.832535885167464
18	RandomForestClassifier	f1	50	0.8316831683168318
18	RandomForestClassifier	f1	50	0.8333333333333334
19	RandomForestClassifier	f1	5	0.7999999999999999
19	RandomForestClassifier	f1	5	0.8020304568527918
19	RandomForestClassifier	f1	5	0.8586387434554974
19	RandomForestClassifier	f1	5	0.787878787878788

19	RandomForestClassifier	f1	50	0.8374384236453202
19	RandomForestClassifier	f1	50	0.8140703517587939
19	RandomForestClassifier	f1	50	0.8405797101449276
19	RandomForestClassifier	f1	50	0.821256038647343
20	RandomForestClassifier	f1	5	0.8140703517587939
20	RandomForestClassifier	f1	5	0.7875647668393783
20	RandomForestClassifier	f1	5	0.8223350253807107
20	RandomForestClassifier	f1	5	0.7914438502673796
20	RandomForestClassifier	f1	50	0.83248730964467
20	RandomForestClassifier	f1	50	0.8205128205128205
20	RandomForestClassifier	f1	50	0.8186528497409327
20	RandomForestClassifier	f1	50	0.835820895522388
21	RandomForestClassifier	f1	5	0.7853403141361256
21	RandomForestClassifier	f1	5	0.8358208955223881
21	RandomForestClassifier	f1	5	0.7938144329896908
21	RandomForestClassifier	f1	5	0.7999999999999999
21	RandomForestClassifier	f1	50	0.8484848484848485
21	RandomForestClassifier	f1	50	0.8613861386138614
21	RandomForestClassifier	f1	50	0.8258706467661693
21	RandomForestClassifier	f1	50	0.8078817733990149
22	RandomForestClassifier	f1	5	0.8020833333333334
22	RandomForestClassifier	f1	5	0.7857142857142857
22	RandomForestClassifier	f1	5	0.8020833333333334
22	RandomForestClassifier	f1	5	0.826530612244898
22	RandomForestClassifier	f1	50	0.8275862068965516
22	RandomForestClassifier	f1	50	0.7999999999999999
22	RandomForestClassifier	f1	50	0.8333333333333334
22	RandomForestClassifier	f1	50	0.8431372549019608
23	RandomForestClassifier	f1	5	0.8
23	RandomForestClassifier	f1	5	0.852791878172589
23	RandomForestClassifier	f1	5	0.7619047619047619
23	RandomForestClassifier	f1	5	0.7604166666666667
23	RandomForestClassifier	f1	50	0.8743718592964823
23	RandomForestClassifier	f1	50	0.8656716417910448
23	RandomForestClassifier	f1	50	0.8756218905472636
23	RandomForestClassifier	f1	50	0.8529411764705881
24	RandomForestClassifier	f1	5	0.7875647668393783
24	RandomForestClassifier	f1	5	0.7894736842105262
24	RandomForestClassifier	f1	5	0.8275862068965516
24	RandomForestClassifier	f1	5	0.7864077669902911
24	RandomForestClassifier	f1	50	0.7922705314009661
24	RandomForestClassifier	f1	50	0.8078817733990148
24	RandomForestClassifier	f1	50	0.821256038647343

24	RandomForestClassifier	f1	50	0.8137254901960784
25	RandomForestClassifier	f1	5	0.8020833333333334
25	RandomForestClassifier	f1	5	0.8080808080808081
25	RandomForestClassifier	f1	5	0.8020833333333334
25	RandomForestClassifier	f1	5	0.801980198019802
25	RandomForestClassifier	f1	50	0.8333333333333334
25	RandomForestClassifier	f1	50	0.8484848484848486
25	RandomForestClassifier	f1	50	0.835820895522388
25	RandomForestClassifier	f1	50	0.8241206030150753

Table 30: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.7611940298507462
1	SVC	accuracy	linear	0.7611940298507462
1	SVC	accuracy	rbf	0.746268656716418
1	SVC	accuracy	rbf	0.746268656716418
1	SVC	accuracy	linear	0.7611940298507462
1	SVC	accuracy	linear	0.7611940298507462
1	SVC	accuracy	rbf	0.746268656716418
1	SVC	accuracy	rbf	0.746268656716418
2	SVC	accuracy	linear	0.6616541353383458
2	SVC	accuracy	linear	0.6616541353383458
2	SVC	accuracy	rbf	0.6691729323308271
2	SVC	accuracy	rbf	0.6691729323308271
2	SVC	accuracy	linear	0.6616541353383458
2	SVC	accuracy	linear	0.6616541353383458
2	SVC	accuracy	rbf	0.6691729323308271
2	SVC	accuracy	rbf	0.6691729323308271
3	SVC	accuracy	linear	0.7443609022556391
3	SVC	accuracy	linear	0.7443609022556391
3	SVC	accuracy	rbf	0.7443609022556391
3	SVC	accuracy	rbf	0.7443609022556391
3	SVC	accuracy	linear	0.7443609022556391
3	SVC	accuracy	linear	0.7443609022556391
3	SVC	accuracy	rbf	0.7443609022556391
3	SVC	accuracy	rbf	0.7443609022556391
4	SVC	accuracy	linear	0.6842105263157895
4	SVC	accuracy	linear	0.6842105263157895
4	SVC	accuracy	rbf	0.7518796992481203
4	SVC	accuracy	rbf	0.7518796992481203

4	SVC	accuracy	linear	0.6842105263157895
4	SVC	accuracy	linear	0.6842105263157895
4	SVC	accuracy	rbf	0.7518796992481203
4	SVC	accuracy	rbf	0.7518796992481203
5	SVC	accuracy	linear	0.6842105263157895
5	SVC	accuracy	linear	0.6842105263157895
5	SVC	accuracy	rbf	0.6917293233082706
5	SVC	accuracy	rbf	0.6917293233082706
5	SVC	accuracy	linear	0.6842105263157895
5	SVC	accuracy	linear	0.6842105263157895
5	SVC	accuracy	rbf	0.6917293233082706
5	SVC	accuracy	rbf	0.6917293233082706
6	SVC	accuracy	linear	0.7313432835820896
6	SVC	accuracy	linear	0.7313432835820896
6	SVC	accuracy	rbf	0.7686567164179104
6	SVC	accuracy	rbf	0.7686567164179104
6	SVC	accuracy	linear	0.7313432835820896
6	SVC	accuracy	linear	0.7313432835820896
6	SVC	accuracy	rbf	0.7686567164179104
6	SVC	accuracy	rbf	0.7686567164179104
7	SVC	accuracy	linear	0.7293233082706767
7	SVC	accuracy	linear	0.7293233082706767
7	SVC	accuracy	rbf	0.7368421052631579
7	SVC	accuracy	rbf	0.7368421052631579
7	SVC	accuracy	linear	0.7293233082706767
7	SVC	accuracy	linear	0.7293233082706767
7	SVC	accuracy	rbf	0.7368421052631579
7	SVC	accuracy	rbf	0.7368421052631579
8	SVC	accuracy	linear	0.6992481203007519
8	SVC	accuracy	linear	0.6992481203007519
8	SVC	accuracy	rbf	0.7218045112781954
8	SVC	accuracy	rbf	0.7218045112781954
8	SVC	accuracy	linear	0.6992481203007519
8	SVC	accuracy	linear	0.6992481203007519
8	SVC	accuracy	rbf	0.7218045112781954
8	SVC	accuracy	rbf	0.7218045112781954
9	SVC	accuracy	linear	0.6766917293233082
9	SVC	accuracy	linear	0.6766917293233082
9	SVC	accuracy	rbf	0.7368421052631579
9	SVC	accuracy	rbf	0.7368421052631579
9	SVC	accuracy	linear	0.6766917293233082
9	SVC	accuracy	linear	0.6766917293233082
9	SVC	accuracy	rbf	0.7368421052631579

9	SVC	accuracy	rbf	0.7368421052631579
10	SVC	accuracy	linear	0.7819548872180451
10	SVC	accuracy	linear	0.7819548872180451
10	SVC	accuracy	rbf	0.7669172932330827
10	SVC	accuracy	rbf	0.7669172932330827
10	SVC	accuracy	linear	0.7819548872180451
10	SVC	accuracy	linear	0.7819548872180451
10	SVC	accuracy	rbf	0.7669172932330827
10	SVC	accuracy	rbf	0.7669172932330827
11	SVC	accuracy	linear	0.7910447761194029
11	SVC	accuracy	linear	0.7910447761194029
11	SVC	accuracy	rbf	0.7686567164179104
11	SVC	accuracy	rbf	0.7686567164179104
11	SVC	accuracy	linear	0.7910447761194029
11	SVC	accuracy	linear	0.7910447761194029
11	SVC	accuracy	rbf	0.7686567164179104
11	SVC	accuracy	rbf	0.7686567164179104
12	SVC	accuracy	linear	0.6992481203007519
12	SVC	accuracy	linear	0.6992481203007519
12	SVC	accuracy	rbf	0.7218045112781954
12	SVC	accuracy	rbf	0.7218045112781954
12	SVC	accuracy	linear	0.6992481203007519
12	SVC	accuracy	linear	0.6992481203007519
12	SVC	accuracy	rbf	0.7218045112781954
12	SVC	accuracy	rbf	0.7218045112781954
13	SVC	accuracy	linear	0.6090225563909775
13	SVC	accuracy	linear	0.6090225563909775
13	SVC	accuracy	rbf	0.6691729323308271
13	SVC	accuracy	rbf	0.6691729323308271
13	SVC	accuracy	linear	0.6090225563909775
13	SVC	accuracy	linear	0.6090225563909775
13	SVC	accuracy	rbf	0.6691729323308271
13	SVC	accuracy	rbf	0.6691729323308271
14	SVC	accuracy	linear	0.7142857142857143
14	SVC	accuracy	linear	0.7142857142857143
14	SVC	accuracy	rbf	0.7142857142857143
14	SVC	accuracy	rbf	0.7142857142857143
14	SVC	accuracy	linear	0.7142857142857143
14	SVC	accuracy	linear	0.7142857142857143
14	SVC	accuracy	rbf	0.7142857142857143
14	SVC	accuracy	rbf	0.7142857142857143
15	SVC	accuracy	linear	0.7293233082706767
15	SVC	accuracy	linear	0.7293233082706767

15	SVC	accuracy	rbf	0.7518796992481203
15	SVC	accuracy	rbf	0.7518796992481203
15	SVC	accuracy	linear	0.7293233082706767
15	SVC	accuracy	linear	0.7293233082706767
15	SVC	accuracy	rbf	0.7518796992481203
15	SVC	accuracy	rbf	0.7518796992481203
16	SVC	accuracy	linear	0.6940298507462687
16	SVC	accuracy	linear	0.6940298507462687
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	linear	0.6940298507462687
16	SVC	accuracy	linear	0.6940298507462687
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	rbf	0.7388059701492538
17	SVC	accuracy	linear	0.7819548872180451
17	SVC	accuracy	linear	0.7819548872180451
17	SVC	accuracy	rbf	0.7443609022556391
17	SVC	accuracy	rbf	0.7443609022556391
17	SVC	accuracy	linear	0.7819548872180451
17	SVC	accuracy	linear	0.7819548872180451
17	SVC	accuracy	rbf	0.7443609022556391
17	SVC	accuracy	rbf	0.7443609022556391
18	SVC	accuracy	linear	0.7518796992481203
18	SVC	accuracy	linear	0.7518796992481203
18	SVC	accuracy	rbf	0.7669172932330827
18	SVC	accuracy	rbf	0.7669172932330827
18	SVC	accuracy	linear	0.7518796992481203
18	SVC	accuracy	linear	0.7518796992481203
18	SVC	accuracy	rbf	0.7669172932330827
18	SVC	accuracy	rbf	0.7669172932330827
19	SVC	accuracy	linear	0.7218045112781954
19	SVC	accuracy	linear	0.7218045112781954
19	SVC	accuracy	rbf	0.7744360902255639
19	SVC	accuracy	rbf	0.7744360902255639
19	SVC	accuracy	linear	0.7218045112781954
19	SVC	accuracy	linear	0.7218045112781954
19	SVC	accuracy	rbf	0.7744360902255639
19	SVC	accuracy	rbf	0.7744360902255639
20	SVC	accuracy	linear	0.7368421052631579
20	SVC	accuracy	linear	0.7368421052631579
20	SVC	accuracy	rbf	0.7669172932330827
20	SVC	accuracy	rbf	0.7669172932330827
20	SVC	accuracy	linear	0.7368421052631579

20	SVC	accuracy	linear	0.7368421052631579
20	SVC	accuracy	rbf	0.7669172932330827
20	SVC	accuracy	rbf	0.7669172932330827
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	rbf	0.7089552238805971
21	SVC	accuracy	rbf	0.7089552238805971
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	rbf	0.7089552238805971
21	SVC	accuracy	rbf	0.7089552238805971
22	SVC	accuracy	linear	0.7142857142857143
22	SVC	accuracy	linear	0.7142857142857143
22	SVC	accuracy	rbf	0.7593984962406015
22	SVC	accuracy	rbf	0.7593984962406015
22	SVC	accuracy	linear	0.7142857142857143
22	SVC	accuracy	linear	0.7142857142857143
22	SVC	accuracy	rbf	0.7593984962406015
22	SVC	accuracy	rbf	0.7593984962406015
23	SVC	accuracy	linear	0.7368421052631579
23	SVC	accuracy	linear	0.7368421052631579
23	SVC	accuracy	rbf	0.7218045112781954
23	SVC	accuracy	rbf	0.7218045112781954
23	SVC	accuracy	linear	0.7368421052631579
23	SVC	accuracy	linear	0.7368421052631579
23	SVC	accuracy	rbf	0.7218045112781954
23	SVC	accuracy	rbf	0.7218045112781954
24	SVC	accuracy	linear	0.6917293233082706
24	SVC	accuracy	linear	0.6917293233082706
24	SVC	accuracy	rbf	0.706766917293233
24	SVC	accuracy	rbf	0.706766917293233
24	SVC	accuracy	linear	0.6917293233082706
24	SVC	accuracy	linear	0.6917293233082706
24	SVC	accuracy	rbf	0.706766917293233
24	SVC	accuracy	rbf	0.706766917293233
25	SVC	accuracy	linear	0.6766917293233082
25	SVC	accuracy	linear	0.6766917293233082
25	SVC	accuracy	rbf	0.7368421052631579
25	SVC	accuracy	rbf	0.7368421052631579
25	SVC	accuracy	linear	0.6766917293233082
25	SVC	accuracy	linear	0.6766917293233082
25	SVC	accuracy	rbf	0.7368421052631579
25	SVC	accuracy	rbf	0.7368421052631579

1	SVC	f1	linear	0.8400000000000001
1	SVC	f1	linear	0.8400000000000001
1	SVC	f1	rbf	0.8380952380952381
1	SVC	f1	rbf	0.8380952380952381
1	SVC	f1	linear	0.8400000000000001
1	SVC	f1	linear	0.8400000000000001
1	SVC	f1	rbf	0.8380952380952381
1	SVC	f1	rbf	0.8380952380952381
2	SVC	f1	linear	0.7692307692307693
2	SVC	f1	linear	0.7692307692307693
2	SVC	f1	rbf	0.7884615384615384
2	SVC	f1	rbf	0.7884615384615384
2	SVC	f1	linear	0.7692307692307693
2	SVC	f1	linear	0.7692307692307693
2	SVC	f1	rbf	0.7884615384615384
2	SVC	f1	rbf	0.7884615384615384
3	SVC	f1	linear	0.8229166666666666
3	SVC	f1	linear	0.8229166666666666
3	SVC	f1	rbf	0.8316831683168318
3	SVC	f1	rbf	0.8316831683168318
3	SVC	f1	linear	0.8229166666666666
3	SVC	f1	linear	0.8229166666666666
3	SVC	f1	rbf	0.8316831683168318
3	SVC	f1	rbf	0.8316831683168318
4	SVC	f1	linear	0.7741935483870968
4	SVC	f1	linear	0.7741935483870968
4	SVC	f1	rbf	0.8421052631578947
4	SVC	f1	rbf	0.8421052631578947
4	SVC	f1	linear	0.7741935483870968
4	SVC	f1	linear	0.7741935483870968
4	SVC	f1	rbf	0.8421052631578947
4	SVC	f1	rbf	0.8421052631578947
5	SVC	f1	linear	0.7857142857142857
5	SVC	f1	linear	0.7857142857142857
5	SVC	f1	rbf	0.8019323671497586
5	SVC	f1	rbf	0.8019323671497586
5	SVC	f1	linear	0.7857142857142857
5	SVC	f1	linear	0.7857142857142857
5	SVC	f1	rbf	0.8019323671497586
5	SVC	f1	rbf	0.8019323671497586
6	SVC	f1	linear	0.8163265306122448
6	SVC	f1	linear	0.8163265306122448
6	SVC	f1	rbf	0.8502415458937199

6	SVC	f1	rbf	0.8502415458937199
6	SVC	f1	linear	0.8163265306122448
6	SVC	f1	linear	0.8163265306122448
6	SVC	f1	rbf	0.8502415458937199
6	SVC	f1	rbf	0.8502415458937199
7	SVC	f1	linear	0.8105263157894737
7	SVC	f1	linear	0.8105263157894737
7	SVC	f1	rbf	0.8241206030150753
7	SVC	f1	rbf	0.8241206030150753
7	SVC	f1	linear	0.8105263157894737
7	SVC	f1	linear	0.8105263157894737
7	SVC	f1	rbf	0.8241206030150753
7	SVC	f1	rbf	0.8241206030150753
8	SVC	f1	linear	0.7849462365591398
8	SVC	f1	linear	0.7849462365591398
8	SVC	f1	rbf	0.8195121951219512
8	SVC	f1	rbf	0.8195121951219512
8	SVC	f1	linear	0.7849462365591398
8	SVC	f1	linear	0.7849462365591398
8	SVC	f1	rbf	0.8195121951219512
8	SVC	f1	rbf	0.8195121951219512
9	SVC	f1	linear	0.7675675675675675
9	SVC	f1	linear	0.7675675675675675
9	SVC	f1	rbf	0.8223350253807107
9	SVC	f1	rbf	0.8223350253807107
9	SVC	f1	linear	0.7675675675675675
9	SVC	f1	linear	0.7675675675675675
9	SVC	f1	rbf	0.8223350253807107
9	SVC	f1	rbf	0.8223350253807107
10	SVC	f1	linear	0.852791878172589
10	SVC	f1	linear	0.852791878172589
10	SVC	f1	rbf	0.8516746411483255
10	SVC	f1	rbf	0.8516746411483255
10	SVC	f1	linear	0.852791878172589
10	SVC	f1	linear	0.852791878172589
10	SVC	f1	rbf	0.8516746411483255
10	SVC	f1	rbf	0.8516746411483255
11	SVC	f1	linear	0.8526315789473684
11	SVC	f1	linear	0.8526315789473684
11	SVC	f1	rbf	0.8516746411483255
11	SVC	f1	rbf	0.8516746411483255
11	SVC	f1	linear	0.8526315789473684
11	SVC	f1	linear	0.8526315789473684

11	SVC	f1	rbf	0.8516746411483255
11	SVC	f1	rbf	0.8516746411483255
12	SVC	f1	linear	0.7959183673469389
12	SVC	f1	linear	0.7959183673469389
12	SVC	f1	rbf	0.821256038647343
12	SVC	f1	rbf	0.821256038647343
12	SVC	f1	linear	0.7959183673469389
12	SVC	f1	linear	0.7959183673469389
12	SVC	f1	rbf	0.821256038647343
12	SVC	f1	rbf	0.821256038647343
13	SVC	f1	linear	0.7173913043478262
13	SVC	f1	linear	0.7173913043478262
13	SVC	f1	rbf	0.7755102040816327
13	SVC	f1	rbf	0.7755102040816327
13	SVC	f1	linear	0.7173913043478262
13	SVC	f1	linear	0.7173913043478262
13	SVC	f1	rbf	0.7755102040816327
13	SVC	f1	rbf	0.7755102040816327
14	SVC	f1	linear	0.8080808080808081
14	SVC	f1	linear	0.8080808080808081
14	SVC	f1	rbf	0.820754716981132
14	SVC	f1	rbf	0.820754716981132
14	SVC	f1	linear	0.8080808080808081
14	SVC	f1	linear	0.8080808080808081
14	SVC	f1	rbf	0.820754716981132
14	SVC	f1	rbf	0.820754716981132
15	SVC	f1	linear	0.8144329896907216
15	SVC	f1	linear	0.8144329896907216
15	SVC	f1	rbf	0.8341708542713568
15	SVC	f1	rbf	0.8341708542713568
15	SVC	f1	linear	0.8144329896907216
15	SVC	f1	linear	0.8144329896907216
15	SVC	f1	rbf	0.8341708542713568
15	SVC	f1	rbf	0.8341708542713568
16	SVC	f1	linear	0.7853403141361256
16	SVC	f1	linear	0.7853403141361256
16	SVC	f1	rbf	0.8325358851674641
16	SVC	f1	rbf	0.8325358851674641
16	SVC	f1	linear	0.7853403141361256
16	SVC	f1	linear	0.7853403141361256
16	SVC	f1	rbf	0.8325358851674641
16	SVC	f1	rbf	0.8325358851674641
17	SVC	f1	linear	0.8542713567839196

17	SVC	f1	linear	0.8542713567839196
17	SVC	f1	rbf	0.838095238095238
17	SVC	f1	rbf	0.838095238095238
17	SVC	f1	linear	0.8542713567839196
17	SVC	f1	linear	0.8542713567839196
17	SVC	f1	rbf	0.838095238095238
17	SVC	f1	rbf	0.838095238095238
18	SVC	f1	linear	0.8341708542713568
18	SVC	f1	linear	0.8341708542713568
18	SVC	f1	rbf	0.8472906403940887
18	SVC	f1	rbf	0.8472906403940887
18	SVC	f1	linear	0.8341708542713568
18	SVC	f1	linear	0.8341708542713568
18	SVC	f1	rbf	0.8472906403940887
18	SVC	f1	rbf	0.8472906403940887
19	SVC	f1	linear	0.8121827411167513
19	SVC	f1	linear	0.8121827411167513
19	SVC	f1	rbf	0.8557692307692307
19	SVC	f1	rbf	0.8557692307692307
19	SVC	f1	linear	0.8121827411167513
19	SVC	f1	linear	0.8121827411167513
19	SVC	f1	rbf	0.8557692307692307
19	SVC	f1	rbf	0.8557692307692307
20	SVC	f1	linear	0.8128342245989305
20	SVC	f1	linear	0.8128342245989305
20	SVC	f1	rbf	0.8457711442786069
20	SVC	f1	rbf	0.8457711442786069
20	SVC	f1	linear	0.8128342245989305
20	SVC	f1	linear	0.8128342245989305
20	SVC	f1	rbf	0.8457711442786069
20	SVC	f1	rbf	0.8457711442786069
21	SVC	f1	linear	0.8265306122448979
21	SVC	f1	linear	0.8265306122448979
21	SVC	f1	rbf	0.8133971291866029
21	SVC	f1	rbf	0.8133971291866029
21	SVC	f1	linear	0.8265306122448979
21	SVC	f1	linear	0.8265306122448979
21	SVC	f1	rbf	0.8133971291866029
21	SVC	f1	rbf	0.8133971291866029
22	SVC	f1	linear	0.8041237113402062
22	SVC	f1	linear	0.8041237113402062
22	SVC	f1	rbf	0.8415841584158414
22	SVC	f1	rbf	0.8415841584158414

22	SVC	f1	linear	0.8041237113402062
22	SVC	f1	linear	0.8041237113402062
22	SVC	f1	rbf	0.8415841584158414
22	SVC	f1	rbf	0.8415841584158414
23	SVC	f1	linear	0.8186528497409327
23	SVC	f1	linear	0.8186528497409327
23	SVC	f1	rbf	0.821256038647343
23	SVC	f1	rbf	0.821256038647343
23	SVC	f1	linear	0.8186528497409327
23	SVC	f1	linear	0.8186528497409327
23	SVC	f1	rbf	0.821256038647343
23	SVC	f1	rbf	0.821256038647343
24	SVC	f1	linear	0.7918781725888324
24	SVC	f1	linear	0.7918781725888324
24	SVC	f1	rbf	0.8059701492537312
24	SVC	f1	rbf	0.8059701492537312
24	SVC	f1	linear	0.7918781725888324
24	SVC	f1	linear	0.7918781725888324
24	SVC	f1	rbf	0.8059701492537312
24	SVC	f1	rbf	0.8059701492537312
25	SVC	f1	linear	0.770053475935829
25	SVC	f1	linear	0.770053475935829
25	SVC	f1	rbf	0.8309178743961353
25	SVC	f1	rbf	0.8309178743961353
25	SVC	f1	linear	0.770053475935829
25	SVC	f1	linear	0.770053475935829
25	SVC	f1	rbf	0.8309178743961353
25	SVC	f1	rbf	0.8309178743961353

Table 31: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
1	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
1	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
1	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
1	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
1	DecisionTreeClassifier	accuracy	entropy	0.7313432835820896
1	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
1	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
2	DecisionTreeClassifier	accuracy	gini	0.6691729323308271

2	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
2	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
2	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
2	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
2	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
2	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
2	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
3	DecisionTreeClassifier	accuracy	gini	0.7443609022556391
3	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
3	DecisionTreeClassifier	accuracy	gini	0.7593984962406015
3	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
3	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
3	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
3	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
3	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
4	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
4	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
4	DecisionTreeClassifier	accuracy	gini	0.706766917293233
4	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
4	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
4	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
4	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
4	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
5	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
5	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
5	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
5	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
5	DecisionTreeClassifier	accuracy	gini	0.631578947368421
5	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
5	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
5	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
6	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
6	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
6	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
6	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
6	DecisionTreeClassifier	accuracy	gini	0.664179104477612
6	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
6	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
6	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
7	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
7	DecisionTreeClassifier	accuracy	entropy	0.6165413533834586
7	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
7	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271

7	DecisionTreeClassifier	accuracy	gini	0.631578947368421
7	DecisionTreeClassifier	accuracy	entropy	0.6090225563909775
7	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
7	DecisionTreeClassifier	accuracy	entropy	0.6015037593984962
8	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
8	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
8	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
8	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
8	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
8	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
8	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
8	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
9	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
9	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
9	DecisionTreeClassifier	accuracy	gini	0.706766917293233
9	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
9	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
9	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
9	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
9	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
10	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
10	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
10	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
10	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
10	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
10	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
10	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
10	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
11	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
11	DecisionTreeClassifier	accuracy	entropy	0.7388059701492538
11	DecisionTreeClassifier	accuracy	gini	0.7313432835820896
11	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
11	DecisionTreeClassifier	accuracy	gini	0.7388059701492538
11	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
11	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
11	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
12	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
12	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
12	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
12	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
12	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
12	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
12	DecisionTreeClassifier	accuracy	gini	0.6466165413533834

12	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
13	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
13	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
13	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
13	DecisionTreeClassifier	accuracy	entropy	0.6015037593984962
13	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
13	DecisionTreeClassifier	accuracy	entropy	0.6165413533834586
13	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
13	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
14	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
14	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
14	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
14	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
14	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
14	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
14	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
14	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
15	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
15	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
15	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
15	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
15	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
15	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
15	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
15	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
16	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
16	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
16	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
16	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
16	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
16	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
16	DecisionTreeClassifier	accuracy	gini	0.664179104477612
16	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
17	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
17	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
17	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
17	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
17	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
17	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
17	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
17	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
18	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
18	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271

18	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
18	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
18	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
18	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
18	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
18	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
19	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
19	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
19	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
19	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
19	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
19	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
19	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
19	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
20	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
20	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
20	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
20	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
20	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
20	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
20	DecisionTreeClassifier	accuracy	gini	0.706766917293233
20	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
21	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
21	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
21	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
21	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
21	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
21	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
21	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
21	DecisionTreeClassifier	accuracy	entropy	0.753731343283582
22	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
22	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
22	DecisionTreeClassifier	accuracy	gini	0.6090225563909775
22	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
22	DecisionTreeClassifier	accuracy	gini	0.6015037593984962
22	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
22	DecisionTreeClassifier	accuracy	gini	0.6015037593984962
22	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
23	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
23	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
23	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
23	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
23	DecisionTreeClassifier	accuracy	gini	0.6390977443609023

23	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
23	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
23	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
24	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
24	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
24	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
24	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
24	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
24	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
24	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
24	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
25	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
25	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
25	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
25	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
25	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
25	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
25	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
25	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
1	DecisionTreeClassifier	f1	gini	0.7608695652173912
1	DecisionTreeClassifier	f1	entropy	0.776595744680851
1	DecisionTreeClassifier	f1	gini	0.7582417582417583
1	DecisionTreeClassifier	f1	entropy	0.7849462365591399
1	DecisionTreeClassifier	f1	gini	0.7582417582417583
1	DecisionTreeClassifier	f1	entropy	0.8085106382978723
1	DecisionTreeClassifier	f1	gini	0.7608695652173912
1	DecisionTreeClassifier	f1	entropy	0.7849462365591399
2	DecisionTreeClassifier	f1	gini	0.7634408602150536
2	DecisionTreeClassifier	f1	entropy	0.7897435897435897
2	DecisionTreeClassifier	f1	gini	0.7419354838709677
2	DecisionTreeClassifier	f1	entropy	0.7958115183246073
2	DecisionTreeClassifier	f1	gini	0.7526881720430108
2	DecisionTreeClassifier	f1	entropy	0.7794871794871795
2	DecisionTreeClassifier	f1	gini	0.7593582887700534
2	DecisionTreeClassifier	f1	entropy	0.7794871794871795
3	DecisionTreeClassifier	f1	gini	0.8247422680412373
3	DecisionTreeClassifier	f1	entropy	0.7894736842105262
3	DecisionTreeClassifier	f1	gini	0.8350515463917527
3	DecisionTreeClassifier	f1	entropy	0.7734806629834253
3	DecisionTreeClassifier	f1	gini	0.7938144329896908
3	DecisionTreeClassifier	f1	entropy	0.7727272727272727
3	DecisionTreeClassifier	f1	gini	0.7978723404255319
3	DecisionTreeClassifier	f1	entropy	0.7624309392265195

4	DecisionTreeClassifier	f1	gini	0.7978723404255319
4	DecisionTreeClassifier	f1	entropy	0.7045454545454546
4	DecisionTreeClassifier	f1	gini	0.7936507936507936
4	DecisionTreeClassifier	f1	entropy	0.7650273224043715
4	DecisionTreeClassifier	f1	gini	0.7789473684210526
4	DecisionTreeClassifier	f1	entropy	0.7597765363128492
4	DecisionTreeClassifier	f1	gini	0.7872340425531914
4	DecisionTreeClassifier	f1	entropy	0.7666666666666667
5	DecisionTreeClassifier	f1	gini	0.7182320441988951
5	DecisionTreeClassifier	f1	entropy	0.7526881720430108
5	DecisionTreeClassifier	f1	gini	0.7252747252747254
5	DecisionTreeClassifier	f1	entropy	0.7526881720430108
5	DecisionTreeClassifier	f1	gini	0.729281767955801
5	DecisionTreeClassifier	f1	entropy	0.7459459459459459
5	DecisionTreeClassifier	f1	gini	0.7333333333333333
5	DecisionTreeClassifier	f1	entropy	0.7362637362637361
6	DecisionTreeClassifier	f1	gini	0.7659574468085105
6	DecisionTreeClassifier	f1	entropy	0.7659574468085105
6	DecisionTreeClassifier	f1	gini	0.774869109947644
6	DecisionTreeClassifier	f1	entropy	0.7593582887700534
6	DecisionTreeClassifier	f1	gini	0.7567567567567567
6	DecisionTreeClassifier	f1	entropy	0.7486631016042781
6	DecisionTreeClassifier	f1	gini	0.7853403141361256
6	DecisionTreeClassifier	f1	entropy	0.7553191489361702
7	DecisionTreeClassifier	f1	gini	0.7243243243243243
7	DecisionTreeClassifier	f1	entropy	0.7272727272727273
7	DecisionTreeClassifier	f1	gini	0.7243243243243243
7	DecisionTreeClassifier	f1	entropy	0.768421052631579
7	DecisionTreeClassifier	f1	gini	0.7407407407407406
7	DecisionTreeClassifier	f1	entropy	0.7173913043478262
7	DecisionTreeClassifier	f1	gini	0.7446808510638299
7	DecisionTreeClassifier	f1	entropy	0.7103825136612022
8	DecisionTreeClassifier	f1	gini	0.7444444444444445
8	DecisionTreeClassifier	f1	entropy	0.7894736842105262
8	DecisionTreeClassifier	f1	gini	0.7540983606557377
8	DecisionTreeClassifier	f1	entropy	0.7540983606557377
8	DecisionTreeClassifier	f1	gini	0.7567567567567567
8	DecisionTreeClassifier	f1	entropy	0.7741935483870968
8	DecisionTreeClassifier	f1	gini	0.7692307692307693
8	DecisionTreeClassifier	f1	entropy	0.75
9	DecisionTreeClassifier	f1	gini	0.8
9	DecisionTreeClassifier	f1	entropy	0.7914438502673796
9	DecisionTreeClassifier	f1	gini	0.7979274611398963

9	DecisionTreeClassifier	f1	entropy	0.7936507936507936
9	DecisionTreeClassifier	f1	gini	0.8167539267015708
9	DecisionTreeClassifier	f1	entropy	0.7812499999999999
9	DecisionTreeClassifier	f1	gini	0.8042328042328043
9	DecisionTreeClassifier	f1	entropy	0.7956989247311826
10	DecisionTreeClassifier	f1	gini	0.7830687830687831
10	DecisionTreeClassifier	f1	entropy	0.7619047619047619
10	DecisionTreeClassifier	f1	gini	0.7826086956521738
10	DecisionTreeClassifier	f1	entropy	0.7526881720430108
10	DecisionTreeClassifier	f1	gini	0.8042328042328043
10	DecisionTreeClassifier	f1	entropy	0.7938144329896908
10	DecisionTreeClassifier	f1	gini	0.7849462365591398
10	DecisionTreeClassifier	f1	entropy	0.7473684210526316
11	DecisionTreeClassifier	f1	gini	0.7999999999999999
11	DecisionTreeClassifier	f1	entropy	0.808743169398907
11	DecisionTreeClassifier	f1	gini	0.8105263157894737
11	DecisionTreeClassifier	f1	entropy	0.7826086956521738
11	DecisionTreeClassifier	f1	gini	0.8148148148148148
11	DecisionTreeClassifier	f1	entropy	0.8021390374331551
11	DecisionTreeClassifier	f1	gini	0.7958115183246073
11	DecisionTreeClassifier	f1	entropy	0.7999999999999999
12	DecisionTreeClassifier	f1	gini	0.7431693989071038
12	DecisionTreeClassifier	f1	entropy	0.7650273224043715
12	DecisionTreeClassifier	f1	gini	0.7692307692307693
12	DecisionTreeClassifier	f1	entropy	0.7675675675675675
12	DecisionTreeClassifier	f1	gini	0.7783783783783783
12	DecisionTreeClassifier	f1	entropy	0.7634408602150536
12	DecisionTreeClassifier	f1	gini	0.7431693989071038
12	DecisionTreeClassifier	f1	entropy	0.7675675675675675
13	DecisionTreeClassifier	f1	gini	0.7692307692307693
13	DecisionTreeClassifier	f1	entropy	0.7303370786516853
13	DecisionTreeClassifier	f1	gini	0.8021978021978021
13	DecisionTreeClassifier	f1	entropy	0.7039106145251396
13	DecisionTreeClassifier	f1	gini	0.7888888888888889
13	DecisionTreeClassifier	f1	entropy	0.7150837988826816
13	DecisionTreeClassifier	f1	gini	0.7431693989071038
13	DecisionTreeClassifier	f1	entropy	0.7344632768361582
14	DecisionTreeClassifier	f1	gini	0.8042328042328043
14	DecisionTreeClassifier	f1	entropy	0.7608695652173912
14	DecisionTreeClassifier	f1	gini	0.8
14	DecisionTreeClassifier	f1	entropy	0.7526881720430108
14	DecisionTreeClassifier	f1	gini	0.7956989247311826
14	DecisionTreeClassifier	f1	entropy	0.7459459459459459

14	DecisionTreeClassifier	f1	gini	0.7872340425531914
14	DecisionTreeClassifier	f1	entropy	0.7675675675675675
15	DecisionTreeClassifier	f1	gini	0.7555555555555556
15	DecisionTreeClassifier	f1	entropy	0.8
15	DecisionTreeClassifier	f1	gini	0.7826086956521738
15	DecisionTreeClassifier	f1	entropy	0.8
15	DecisionTreeClassifier	f1	gini	0.7126436781609194
15	DecisionTreeClassifier	f1	entropy	0.7956989247311826
15	DecisionTreeClassifier	f1	gini	0.7888888888888889
15	DecisionTreeClassifier	f1	entropy	0.7956989247311826
16	DecisionTreeClassifier	f1	gini	0.7724867724867724
16	DecisionTreeClassifier	f1	entropy	0.7724867724867724
16	DecisionTreeClassifier	f1	gini	0.8020833333333333
16	DecisionTreeClassifier	f1	entropy	0.761904761904762
16	DecisionTreeClassifier	f1	gini	0.7875647668393781
16	DecisionTreeClassifier	f1	entropy	0.774869109947644
16	DecisionTreeClassifier	f1	gini	0.7593582887700534
16	DecisionTreeClassifier	f1	entropy	0.7684210526315789
17	DecisionTreeClassifier	f1	gini	0.7666666666666667
17	DecisionTreeClassifier	f1	entropy	0.7978142076502732
17	DecisionTreeClassifier	f1	gini	0.7717391304347825
17	DecisionTreeClassifier	f1	entropy	0.7868852459016393
17	DecisionTreeClassifier	f1	gini	0.7734806629834253
17	DecisionTreeClassifier	f1	entropy	0.7891891891891891
17	DecisionTreeClassifier	f1	gini	0.7692307692307693
17	DecisionTreeClassifier	f1	entropy	0.7624309392265195
18	DecisionTreeClassifier	f1	gini	0.7567567567567567
18	DecisionTreeClassifier	f1	entropy	0.7634408602150536
18	DecisionTreeClassifier	f1	gini	0.7853403141361257
18	DecisionTreeClassifier	f1	entropy	0.7593582887700534
18	DecisionTreeClassifier	f1	gini	0.7708333333333333
18	DecisionTreeClassifier	f1	entropy	0.7322404371584699
18	DecisionTreeClassifier	f1	gini	0.7724867724867724
18	DecisionTreeClassifier	f1	entropy	0.768421052631579
19	DecisionTreeClassifier	f1	gini	0.75
19	DecisionTreeClassifier	f1	entropy	0.7333333333333333
19	DecisionTreeClassifier	f1	gini	0.7593582887700534
19	DecisionTreeClassifier	f1	entropy	0.776595744680851
19	DecisionTreeClassifier	f1	gini	0.7634408602150536
19	DecisionTreeClassifier	f1	entropy	0.7634408602150536
19	DecisionTreeClassifier	f1	gini	0.768421052631579
19	DecisionTreeClassifier	f1	entropy	0.7567567567567567
20	DecisionTreeClassifier	f1	gini	0.8021390374331551

20	DecisionTreeClassifier	f1	entropy	0.7578947368421053
20	DecisionTreeClassifier	f1	gini	0.7692307692307693
20	DecisionTreeClassifier	f1	entropy	0.768421052631579
20	DecisionTreeClassifier	f1	gini	0.7826086956521738
20	DecisionTreeClassifier	f1	entropy	0.8085106382978724
20	DecisionTreeClassifier	f1	gini	0.7936507936507936
20	DecisionTreeClassifier	f1	entropy	0.7634408602150536
21	DecisionTreeClassifier	f1	gini	0.7826086956521738
21	DecisionTreeClassifier	f1	entropy	0.7872340425531915
21	DecisionTreeClassifier	f1	gini	0.7675675675675676
21	DecisionTreeClassifier	f1	entropy	0.7783783783783782
21	DecisionTreeClassifier	f1	gini	0.7783783783783782
21	DecisionTreeClassifier	f1	entropy	0.795698924731183
21	DecisionTreeClassifier	f1	gini	0.7624309392265194
21	DecisionTreeClassifier	f1	entropy	0.8272251308900525
22	DecisionTreeClassifier	f1	gini	0.7340425531914895
22	DecisionTreeClassifier	f1	entropy	0.7391304347826086
22	DecisionTreeClassifier	f1	gini	0.7204301075268817
22	DecisionTreeClassifier	f1	entropy	0.7322404371584699
22	DecisionTreeClassifier	f1	gini	0.7103825136612022
22	DecisionTreeClassifier	f1	entropy	0.7311827956989246
22	DecisionTreeClassifier	f1	gini	0.7039106145251396
22	DecisionTreeClassifier	f1	entropy	0.7419354838709677
23	DecisionTreeClassifier	f1	gini	0.7555555555555556
23	DecisionTreeClassifier	f1	entropy	0.7724867724867724
23	DecisionTreeClassifier	f1	gini	0.7582417582417582
23	DecisionTreeClassifier	f1	entropy	0.7849462365591398
23	DecisionTreeClassifier	f1	gini	0.7272727272727274
23	DecisionTreeClassifier	f1	entropy	0.7956989247311826
23	DecisionTreeClassifier	f1	gini	0.7415730337078652
23	DecisionTreeClassifier	f1	entropy	0.8128342245989305
24	DecisionTreeClassifier	f1	gini	0.7872340425531914
24	DecisionTreeClassifier	f1	entropy	0.7472527472527474
24	DecisionTreeClassifier	f1	gini	0.8020833333333334
24	DecisionTreeClassifier	f1	entropy	0.7650273224043715
24	DecisionTreeClassifier	f1	gini	0.7593582887700534
24	DecisionTreeClassifier	f1	entropy	0.7403314917127072
24	DecisionTreeClassifier	f1	gini	0.770053475935829
24	DecisionTreeClassifier	f1	entropy	0.7717391304347825
25	DecisionTreeClassifier	f1	gini	0.7528089887640449
25	DecisionTreeClassifier	f1	entropy	0.7650273224043715
25	DecisionTreeClassifier	f1	gini	0.7759562841530053
25	DecisionTreeClassifier	f1	entropy	0.7540983606557377

25	DecisionTreeClassifier	f1	gini	0.7916666666666666
25	DecisionTreeClassifier	f1	entropy	0.7849462365591398
25	DecisionTreeClassifier	f1	gini	0.7692307692307693
25	DecisionTreeClassifier	f1	entropy	0.7486033519553073

Table 32: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.7313432835820896
1	RandomForestClassifier	accuracy	5	0.746268656716418
1	RandomForestClassifier	accuracy	5	0.7238805970149254
1	RandomForestClassifier	accuracy	5	0.6940298507462687
1	RandomForestClassifier	accuracy	50	0.7611940298507462
1	RandomForestClassifier	accuracy	50	0.7761194029850746
1	RandomForestClassifier	accuracy	50	0.7611940298507462
1	RandomForestClassifier	accuracy	50	0.7611940298507462
2	RandomForestClassifier	accuracy	5	0.7388059701492538
2	RandomForestClassifier	accuracy	5	0.7014925373134329
2	RandomForestClassifier	accuracy	5	0.7388059701492538
2	RandomForestClassifier	accuracy	5	0.7238805970149254
2	RandomForestClassifier	accuracy	50	0.7313432835820896
2	RandomForestClassifier	accuracy	50	0.7238805970149254
2	RandomForestClassifier	accuracy	50	0.753731343283582
2	RandomForestClassifier	accuracy	50	0.7313432835820896
3	RandomForestClassifier	accuracy	5	0.706766917293233
3	RandomForestClassifier	accuracy	5	0.6541353383458647
3	RandomForestClassifier	accuracy	5	0.6466165413533834
3	RandomForestClassifier	accuracy	5	0.7142857142857143
3	RandomForestClassifier	accuracy	50	0.7819548872180451
3	RandomForestClassifier	accuracy	50	0.7368421052631579
3	RandomForestClassifier	accuracy	50	0.7368421052631579
3	RandomForestClassifier	accuracy	50	0.7293233082706767
4	RandomForestClassifier	accuracy	5	0.6917293233082706
4	RandomForestClassifier	accuracy	5	0.7218045112781954
4	RandomForestClassifier	accuracy	5	0.6766917293233082
4	RandomForestClassifier	accuracy	5	0.7142857142857143
4	RandomForestClassifier	accuracy	50	0.7744360902255639
4	RandomForestClassifier	accuracy	50	0.7518796992481203
4	RandomForestClassifier	accuracy	50	0.7518796992481203
4	RandomForestClassifier	accuracy	50	0.7894736842105263
5	RandomForestClassifier	accuracy	5	0.7218045112781954

5	RandomForestClassifier	accuracy	5	0.6917293233082706
5	RandomForestClassifier	accuracy	5	0.706766917293233
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23	RandomForestClassifier	f1	5	0.81
23	RandomForestClassifier	f1	50	0.8627450980392158
23	RandomForestClassifier	f1	50	0.8217821782178217
23	RandomForestClassifier	f1	50	0.8415841584158414
23	RandomForestClassifier	f1	50	0.8177339901477831
24	RandomForestClassifier	f1	5	0.8673469387755103
24	RandomForestClassifier	f1	5	0.826530612244898
24	RandomForestClassifier	f1	5	0.826530612244898
24	RandomForestClassifier	f1	5	0.8542713567839196
24	RandomForestClassifier	f1	50	0.8712871287128714
24	RandomForestClassifier	f1	50	0.848780487804878
24	RandomForestClassifier	f1	50	0.8669950738916257
24	RandomForestClassifier	f1	50	0.8682926829268293
25	RandomForestClassifier	f1	5	0.8061224489795918
25	RandomForestClassifier	f1	5	0.8040201005025127
25	RandomForestClassifier	f1	5	0.8349514563106796
25	RandomForestClassifier	f1	5	0.7724867724867724
25	RandomForestClassifier	f1	50	0.8557692307692307
25	RandomForestClassifier	f1	50	0.8316831683168318
25	RandomForestClassifier	f1	50	0.8333333333333334
25	RandomForestClassifier	f1	50	0.8571428571428572

Table 33: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.753731343283582
1	SVC	accuracy	linear	0.753731343283582
1	SVC	accuracy	rbf	0.753731343283582
1	SVC	accuracy	rbf	0.753731343283582
1	SVC	accuracy	linear	0.753731343283582
1	SVC	accuracy	linear	0.753731343283582
1	SVC	accuracy	rbf	0.753731343283582
1	SVC	accuracy	rbf	0.753731343283582
2	SVC	accuracy	linear	0.746268656716418
2	SVC	accuracy	linear	0.746268656716418
2	SVC	accuracy	rbf	0.746268656716418
2	SVC	accuracy	rbf	0.746268656716418
2	SVC	accuracy	linear	0.746268656716418
2	SVC	accuracy	linear	0.746268656716418

2	SVC	accuracy	rbf	0.746268656716418
2	SVC	accuracy	rbf	0.746268656716418
3	SVC	accuracy	linear	0.706766917293233
3	SVC	accuracy	linear	0.706766917293233
3	SVC	accuracy	rbf	0.7669172932330827
3	SVC	accuracy	rbf	0.7669172932330827
3	SVC	accuracy	linear	0.706766917293233
3	SVC	accuracy	linear	0.706766917293233
3	SVC	accuracy	rbf	0.7669172932330827
3	SVC	accuracy	rbf	0.7669172932330827
4	SVC	accuracy	linear	0.7894736842105263
4	SVC	accuracy	linear	0.7894736842105263
4	SVC	accuracy	rbf	0.7669172932330827
4	SVC	accuracy	rbf	0.7669172932330827
4	SVC	accuracy	linear	0.7894736842105263
4	SVC	accuracy	linear	0.7894736842105263
4	SVC	accuracy	rbf	0.7669172932330827
4	SVC	accuracy	rbf	0.7669172932330827
5	SVC	accuracy	linear	0.7293233082706767
5	SVC	accuracy	linear	0.7293233082706767
5	SVC	accuracy	rbf	0.7443609022556391
5	SVC	accuracy	rbf	0.7443609022556391
5	SVC	accuracy	linear	0.7293233082706767
5	SVC	accuracy	linear	0.7293233082706767
5	SVC	accuracy	rbf	0.7443609022556391
5	SVC	accuracy	rbf	0.7443609022556391
6	SVC	accuracy	linear	0.7014925373134329
6	SVC	accuracy	linear	0.7014925373134329
6	SVC	accuracy	rbf	0.7238805970149254
6	SVC	accuracy	rbf	0.7238805970149254
6	SVC	accuracy	linear	0.7014925373134329
6	SVC	accuracy	linear	0.7014925373134329
6	SVC	accuracy	rbf	0.7238805970149254
6	SVC	accuracy	rbf	0.7238805970149254
7	SVC	accuracy	linear	0.753731343283582
7	SVC	accuracy	linear	0.753731343283582
7	SVC	accuracy	rbf	0.753731343283582
7	SVC	accuracy	rbf	0.753731343283582
7	SVC	accuracy	linear	0.753731343283582
7	SVC	accuracy	linear	0.753731343283582
7	SVC	accuracy	rbf	0.753731343283582
7	SVC	accuracy	rbf	0.753731343283582
8	SVC	accuracy	linear	0.7218045112781954

8	SVC	accuracy	linear	0.7218045112781954
8	SVC	accuracy	rbf	0.7218045112781954
8	SVC	accuracy	rbf	0.7218045112781954
8	SVC	accuracy	linear	0.7218045112781954
8	SVC	accuracy	linear	0.7218045112781954
8	SVC	accuracy	rbf	0.7218045112781954
8	SVC	accuracy	rbf	0.7218045112781954
9	SVC	accuracy	linear	0.8045112781954887
9	SVC	accuracy	linear	0.8045112781954887
9	SVC	accuracy	rbf	0.7819548872180451
9	SVC	accuracy	rbf	0.7819548872180451
9	SVC	accuracy	linear	0.8045112781954887
9	SVC	accuracy	linear	0.8045112781954887
9	SVC	accuracy	rbf	0.7819548872180451
9	SVC	accuracy	rbf	0.7819548872180451
10	SVC	accuracy	linear	0.7293233082706767
10	SVC	accuracy	linear	0.7293233082706767
10	SVC	accuracy	rbf	0.7518796992481203
10	SVC	accuracy	rbf	0.7518796992481203
10	SVC	accuracy	linear	0.7293233082706767
10	SVC	accuracy	linear	0.7293233082706767
10	SVC	accuracy	rbf	0.7518796992481203
10	SVC	accuracy	rbf	0.7518796992481203
11	SVC	accuracy	linear	0.7761194029850746
11	SVC	accuracy	linear	0.7761194029850746
11	SVC	accuracy	rbf	0.7761194029850746
11	SVC	accuracy	rbf	0.7761194029850746
11	SVC	accuracy	linear	0.7761194029850746
11	SVC	accuracy	linear	0.7761194029850746
11	SVC	accuracy	rbf	0.7761194029850746
11	SVC	accuracy	rbf	0.7761194029850746
12	SVC	accuracy	linear	0.753731343283582
12	SVC	accuracy	linear	0.753731343283582
12	SVC	accuracy	rbf	0.746268656716418
12	SVC	accuracy	rbf	0.746268656716418
12	SVC	accuracy	linear	0.753731343283582
12	SVC	accuracy	linear	0.753731343283582
12	SVC	accuracy	rbf	0.746268656716418
12	SVC	accuracy	rbf	0.746268656716418
13	SVC	accuracy	linear	0.7293233082706767
13	SVC	accuracy	linear	0.7293233082706767
13	SVC	accuracy	rbf	0.7593984962406015
13	SVC	accuracy	rbf	0.7593984962406015

13	SVC	accuracy	linear	0.7293233082706767
13	SVC	accuracy	linear	0.7293233082706767
13	SVC	accuracy	rbf	0.7593984962406015
13	SVC	accuracy	rbf	0.7593984962406015
14	SVC	accuracy	linear	0.7142857142857143
14	SVC	accuracy	linear	0.7142857142857143
14	SVC	accuracy	rbf	0.7368421052631579
14	SVC	accuracy	rbf	0.7368421052631579
14	SVC	accuracy	linear	0.7142857142857143
14	SVC	accuracy	linear	0.7142857142857143
14	SVC	accuracy	rbf	0.7368421052631579
14	SVC	accuracy	rbf	0.7368421052631579
15	SVC	accuracy	linear	0.7744360902255639
15	SVC	accuracy	linear	0.7744360902255639
15	SVC	accuracy	rbf	0.7669172932330827
15	SVC	accuracy	rbf	0.7669172932330827
15	SVC	accuracy	linear	0.7744360902255639
15	SVC	accuracy	linear	0.7744360902255639
15	SVC	accuracy	rbf	0.7669172932330827
15	SVC	accuracy	rbf	0.7669172932330827
16	SVC	accuracy	linear	0.753731343283582
16	SVC	accuracy	linear	0.753731343283582
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	linear	0.753731343283582
16	SVC	accuracy	linear	0.753731343283582
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	rbf	0.7388059701492538
17	SVC	accuracy	linear	0.7910447761194029
17	SVC	accuracy	linear	0.7910447761194029
17	SVC	accuracy	rbf	0.7985074626865671
17	SVC	accuracy	rbf	0.7985074626865671
17	SVC	accuracy	linear	0.7910447761194029
17	SVC	accuracy	linear	0.7910447761194029
17	SVC	accuracy	rbf	0.7985074626865671
17	SVC	accuracy	rbf	0.7985074626865671
18	SVC	accuracy	linear	0.6992481203007519
18	SVC	accuracy	linear	0.6992481203007519
18	SVC	accuracy	rbf	0.7368421052631579
18	SVC	accuracy	rbf	0.7368421052631579
18	SVC	accuracy	linear	0.6992481203007519
18	SVC	accuracy	linear	0.6992481203007519
18	SVC	accuracy	rbf	0.7368421052631579

18	SVC	accuracy	rbf	0.7368421052631579
19	SVC	accuracy	linear	0.6992481203007519
19	SVC	accuracy	linear	0.6992481203007519
19	SVC	accuracy	rbf	0.7443609022556391
19	SVC	accuracy	rbf	0.7443609022556391
19	SVC	accuracy	linear	0.6992481203007519
19	SVC	accuracy	linear	0.6992481203007519
19	SVC	accuracy	rbf	0.7443609022556391
19	SVC	accuracy	rbf	0.7443609022556391
20	SVC	accuracy	linear	0.7443609022556391
20	SVC	accuracy	linear	0.7443609022556391
20	SVC	accuracy	rbf	0.7443609022556391
20	SVC	accuracy	rbf	0.7443609022556391
20	SVC	accuracy	linear	0.7443609022556391
20	SVC	accuracy	linear	0.7443609022556391
20	SVC	accuracy	rbf	0.7443609022556391
20	SVC	accuracy	rbf	0.7443609022556391
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	rbf	0.753731343283582
21	SVC	accuracy	rbf	0.753731343283582
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	linear	0.746268656716418
21	SVC	accuracy	rbf	0.753731343283582
21	SVC	accuracy	rbf	0.753731343283582
22	SVC	accuracy	linear	0.7761194029850746
22	SVC	accuracy	linear	0.7761194029850746
22	SVC	accuracy	rbf	0.7835820895522388
22	SVC	accuracy	rbf	0.7835820895522388
22	SVC	accuracy	linear	0.7761194029850746
22	SVC	accuracy	linear	0.7761194029850746
22	SVC	accuracy	rbf	0.7835820895522388
22	SVC	accuracy	rbf	0.7835820895522388
23	SVC	accuracy	linear	0.7443609022556391
23	SVC	accuracy	linear	0.7443609022556391
23	SVC	accuracy	rbf	0.7142857142857143
23	SVC	accuracy	rbf	0.7142857142857143
23	SVC	accuracy	linear	0.7443609022556391
23	SVC	accuracy	linear	0.7443609022556391
23	SVC	accuracy	rbf	0.7142857142857143
23	SVC	accuracy	rbf	0.7142857142857143
24	SVC	accuracy	linear	0.7518796992481203
24	SVC	accuracy	linear	0.7518796992481203

24	SVC	accuracy	rbf	0.7518796992481203
24	SVC	accuracy	rbf	0.7518796992481203
24	SVC	accuracy	linear	0.7518796992481203
24	SVC	accuracy	linear	0.7518796992481203
24	SVC	accuracy	rbf	0.7518796992481203
24	SVC	accuracy	rbf	0.7518796992481203
25	SVC	accuracy	linear	0.7142857142857143
25	SVC	accuracy	linear	0.7142857142857143
25	SVC	accuracy	rbf	0.7293233082706767
25	SVC	accuracy	rbf	0.7293233082706767
25	SVC	accuracy	linear	0.7142857142857143
25	SVC	accuracy	linear	0.7142857142857143
25	SVC	accuracy	rbf	0.7293233082706767
25	SVC	accuracy	rbf	0.7293233082706767
1	SVC	f1	linear	0.8390243902439024
1	SVC	f1	linear	0.8390243902439024
1	SVC	f1	rbf	0.8421052631578948
1	SVC	f1	rbf	0.8421052631578948
1	SVC	f1	linear	0.8390243902439024
1	SVC	f1	linear	0.8390243902439024
1	SVC	f1	rbf	0.8421052631578948
1	SVC	f1	rbf	0.8421052631578948
2	SVC	f1	linear	0.8316831683168316
2	SVC	f1	linear	0.8316831683168316
2	SVC	f1	rbf	0.8380952380952381
2	SVC	f1	rbf	0.8380952380952381
2	SVC	f1	linear	0.8316831683168316
2	SVC	f1	linear	0.8316831683168316
2	SVC	f1	rbf	0.8380952380952381
2	SVC	f1	rbf	0.8380952380952381
3	SVC	f1	linear	0.7868852459016393
3	SVC	f1	linear	0.7868852459016393
3	SVC	f1	rbf	0.841025641025641
3	SVC	f1	rbf	0.841025641025641
3	SVC	f1	linear	0.7868852459016393
3	SVC	f1	linear	0.7868852459016393
3	SVC	f1	rbf	0.841025641025641
3	SVC	f1	rbf	0.841025641025641
4	SVC	f1	linear	0.8571428571428571
4	SVC	f1	linear	0.8571428571428571
4	SVC	f1	rbf	0.8516746411483255
4	SVC	f1	rbf	0.8516746411483255
4	SVC	f1	linear	0.8571428571428571

4	SVC	f1	linear	0.8571428571428571
4	SVC	f1	rbf	0.8516746411483255
4	SVC	f1	rbf	0.8516746411483255
5	SVC	f1	linear	0.8163265306122449
5	SVC	f1	linear	0.8163265306122449
5	SVC	f1	rbf	0.8349514563106796
5	SVC	f1	rbf	0.8349514563106796
5	SVC	f1	linear	0.8163265306122449
5	SVC	f1	linear	0.8163265306122449
5	SVC	f1	rbf	0.8349514563106796
5	SVC	f1	rbf	0.8349514563106796
6	SVC	f1	linear	0.7938144329896908
6	SVC	f1	linear	0.7938144329896908
6	SVC	f1	rbf	0.8121827411167513
6	SVC	f1	rbf	0.8121827411167513
6	SVC	f1	linear	0.7938144329896908
6	SVC	f1	linear	0.7938144329896908
6	SVC	f1	rbf	0.8121827411167513
6	SVC	f1	rbf	0.8121827411167513
7	SVC	f1	linear	0.8390243902439024
7	SVC	f1	linear	0.8390243902439024
7	SVC	f1	rbf	0.8465116279069769
7	SVC	f1	rbf	0.8465116279069769
7	SVC	f1	linear	0.8390243902439024
7	SVC	f1	linear	0.8390243902439024
7	SVC	f1	rbf	0.8465116279069769
7	SVC	f1	rbf	0.8465116279069769
8	SVC	f1	linear	0.8121827411167513
8	SVC	f1	linear	0.8121827411167513
8	SVC	f1	rbf	0.8195121951219512
8	SVC	f1	rbf	0.8195121951219512
8	SVC	f1	linear	0.8121827411167513
8	SVC	f1	linear	0.8121827411167513
8	SVC	f1	rbf	0.8195121951219512
8	SVC	f1	rbf	0.8195121951219512
9	SVC	f1	linear	0.8631578947368421
9	SVC	f1	linear	0.8631578947368421
9	SVC	f1	rbf	0.8585365853658538
9	SVC	f1	rbf	0.8585365853658538
9	SVC	f1	linear	0.8631578947368421
9	SVC	f1	linear	0.8631578947368421
9	SVC	f1	rbf	0.8585365853658538
9	SVC	f1	rbf	0.8585365853658538

10	SVC	f1	linear	0.8181818181818182
10	SVC	f1	linear	0.8181818181818182
10	SVC	f1	rbf	0.835820895522388
10	SVC	f1	rbf	0.835820895522388
10	SVC	f1	linear	0.8181818181818182
10	SVC	f1	linear	0.8181818181818182
10	SVC	f1	rbf	0.835820895522388
10	SVC	f1	rbf	0.835820895522388
11	SVC	f1	linear	0.84375
11	SVC	f1	linear	0.84375
11	SVC	f1	rbf	0.8514851485148516
11	SVC	f1	rbf	0.8514851485148516
11	SVC	f1	linear	0.84375
11	SVC	f1	linear	0.84375
11	SVC	f1	rbf	0.8514851485148516
11	SVC	f1	rbf	0.8514851485148516
12	SVC	f1	linear	0.8358208955223881
12	SVC	f1	linear	0.8358208955223881
12	SVC	f1	rbf	0.8396226415094339
12	SVC	f1	rbf	0.8396226415094339
12	SVC	f1	linear	0.8358208955223881
12	SVC	f1	linear	0.8358208955223881
12	SVC	f1	rbf	0.8396226415094339
12	SVC	f1	rbf	0.8396226415094339
13	SVC	f1	linear	0.8144329896907216
13	SVC	f1	linear	0.8144329896907216
13	SVC	f1	rbf	0.8476190476190476
13	SVC	f1	rbf	0.8476190476190476
13	SVC	f1	linear	0.8144329896907216
13	SVC	f1	linear	0.8144329896907216
13	SVC	f1	rbf	0.8476190476190476
13	SVC	f1	rbf	0.8476190476190476
14	SVC	f1	linear	0.8080808080808081
14	SVC	f1	linear	0.8080808080808081
14	SVC	f1	rbf	0.8309178743961353
14	SVC	f1	rbf	0.8309178743961353
14	SVC	f1	linear	0.8080808080808081
14	SVC	f1	linear	0.8080808080808081
14	SVC	f1	rbf	0.8309178743961353
14	SVC	f1	rbf	0.8309178743961353
15	SVC	f1	linear	0.8421052631578948
15	SVC	f1	linear	0.8421052631578948
15	SVC	f1	rbf	0.8457711442786069

15	SVC	f1	rbf	0.8457711442786069
15	SVC	f1	linear	0.8421052631578948
15	SVC	f1	linear	0.8421052631578948
15	SVC	f1	rbf	0.8457711442786069
15	SVC	f1	rbf	0.8457711442786069
16	SVC	f1	linear	0.8216216216216216
16	SVC	f1	linear	0.8216216216216216
16	SVC	f1	rbf	0.8275862068965517
16	SVC	f1	rbf	0.8275862068965517
16	SVC	f1	linear	0.8216216216216216
16	SVC	f1	linear	0.8216216216216216
16	SVC	f1	rbf	0.8275862068965517
16	SVC	f1	rbf	0.8275862068965517
17	SVC	f1	linear	0.8556701030927835
17	SVC	f1	linear	0.8556701030927835
17	SVC	f1	rbf	0.8656716417910447
17	SVC	f1	rbf	0.8656716417910447
17	SVC	f1	linear	0.8556701030927835
17	SVC	f1	linear	0.8556701030927835
17	SVC	f1	rbf	0.8656716417910447
17	SVC	f1	rbf	0.8656716417910447
18	SVC	f1	linear	0.7979797979797979
18	SVC	f1	linear	0.7979797979797979
18	SVC	f1	rbf	0.832535885167464
18	SVC	f1	rbf	0.832535885167464
18	SVC	f1	linear	0.7979797979797979
18	SVC	f1	linear	0.7979797979797979
18	SVC	f1	rbf	0.832535885167464
18	SVC	f1	rbf	0.832535885167464
19	SVC	f1	linear	0.7959183673469389
19	SVC	f1	linear	0.7959183673469389
19	SVC	f1	rbf	0.838095238095238
19	SVC	f1	rbf	0.838095238095238
19	SVC	f1	linear	0.7959183673469389
19	SVC	f1	linear	0.7959183673469389
19	SVC	f1	rbf	0.838095238095238
19	SVC	f1	rbf	0.838095238095238
20	SVC	f1	linear	0.8191489361702128
20	SVC	f1	linear	0.8191489361702128
20	SVC	f1	rbf	0.8365384615384615
20	SVC	f1	rbf	0.8365384615384615
20	SVC	f1	linear	0.8191489361702128
20	SVC	f1	linear	0.8191489361702128

20	SVC	f1	rbf	0.8365384615384615
20	SVC	f1	rbf	0.8365384615384615
21	SVC	f1	linear	0.8247422680412372
21	SVC	f1	linear	0.8247422680412372
21	SVC	f1	rbf	0.8390243902439024
21	SVC	f1	rbf	0.8390243902439024
21	SVC	f1	linear	0.8247422680412372
21	SVC	f1	linear	0.8247422680412372
21	SVC	f1	rbf	0.8390243902439024
21	SVC	f1	rbf	0.8390243902439024
22	SVC	f1	linear	0.846938775510204
22	SVC	f1	linear	0.846938775510204
22	SVC	f1	rbf	0.861244019138756
22	SVC	f1	rbf	0.861244019138756
22	SVC	f1	linear	0.846938775510204
22	SVC	f1	linear	0.846938775510204
22	SVC	f1	rbf	0.861244019138756
22	SVC	f1	rbf	0.861244019138756
23	SVC	f1	linear	0.8210526315789475
23	SVC	f1	linear	0.8210526315789475
23	SVC	f1	rbf	0.8137254901960784
23	SVC	f1	rbf	0.8137254901960784
23	SVC	f1	linear	0.8210526315789475
23	SVC	f1	linear	0.8210526315789475
23	SVC	f1	rbf	0.8137254901960784
23	SVC	f1	rbf	0.8137254901960784
24	SVC	f1	linear	0.8341708542713568
24	SVC	f1	linear	0.8341708542713568
24	SVC	f1	rbf	0.8390243902439024
24	SVC	f1	rbf	0.8390243902439024
24	SVC	f1	linear	0.8341708542713568
24	SVC	f1	linear	0.8341708542713568
24	SVC	f1	rbf	0.8390243902439024
24	SVC	f1	rbf	0.8390243902439024
25	SVC	f1	linear	0.8061224489795918
25	SVC	f1	linear	0.8061224489795918
25	SVC	f1	rbf	0.8252427184466019
25	SVC	f1	rbf	0.8252427184466019
25	SVC	f1	linear	0.8061224489795918
25	SVC	f1	linear	0.8061224489795918
25	SVC	f1	rbf	0.8252427184466019
25	SVC	f1	rbf	0.8252427184466019

Table 34: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
1	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
1	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
1	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
1	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
1	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
1	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
1	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
2	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
2	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
2	DecisionTreeClassifier	accuracy	gini	0.7313432835820896
2	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
2	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
2	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
2	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
2	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
3	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
3	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
3	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
3	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
3	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
3	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
3	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
3	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
4	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
4	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
4	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
4	DecisionTreeClassifier	accuracy	entropy	0.7443609022556391
4	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
4	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
4	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
4	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
5	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
5	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
5	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
5	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
5	DecisionTreeClassifier	accuracy	gini	0.6691729323308271

5	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
5	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
5	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
6	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
6	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
6	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
6	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
6	DecisionTreeClassifier	accuracy	gini	0.664179104477612
6	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
6	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
6	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
7	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
7	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
7	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
7	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
7	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
7	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
7	DecisionTreeClassifier	accuracy	gini	0.664179104477612
7	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
8	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
8	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
8	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
8	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
8	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
8	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
8	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
8	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
9	DecisionTreeClassifier	accuracy	gini	0.706766917293233
9	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
9	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
9	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
9	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
9	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
9	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
9	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
10	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
10	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
10	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
10	DecisionTreeClassifier	accuracy	entropy	0.5864661654135338
10	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
10	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
10	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
10	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023

11	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
11	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
11	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
11	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
11	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
11	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
11	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
11	DecisionTreeClassifier	accuracy	entropy	0.6194029850746269
12	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
12	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
12	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
12	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
12	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
12	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
12	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
12	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
13	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
13	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
13	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
13	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
13	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
13	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
13	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
13	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
14	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
14	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
14	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
14	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
14	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
14	DecisionTreeClassifier	accuracy	entropy	0.6165413533834586
14	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
14	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
15	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
15	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
15	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
15	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
15	DecisionTreeClassifier	accuracy	gini	0.706766917293233
15	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
15	DecisionTreeClassifier	accuracy	gini	0.706766917293233
15	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
16	DecisionTreeClassifier	accuracy	gini	0.664179104477612
16	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
16	DecisionTreeClassifier	accuracy	gini	0.6492537313432836

16	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
16	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
16	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
16	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
16	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
17	DecisionTreeClassifier	accuracy	gini	0.746268656716418
17	DecisionTreeClassifier	accuracy	entropy	0.746268656716418
17	DecisionTreeClassifier	accuracy	gini	0.746268656716418
17	DecisionTreeClassifier	accuracy	entropy	0.746268656716418
17	DecisionTreeClassifier	accuracy	gini	0.746268656716418
17	DecisionTreeClassifier	accuracy	entropy	0.7388059701492538
17	DecisionTreeClassifier	accuracy	gini	0.753731343283582
17	DecisionTreeClassifier	accuracy	entropy	0.7313432835820896
18	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
18	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
18	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
18	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
18	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
18	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
18	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
18	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
19	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
19	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
19	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
19	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
19	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
19	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
19	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
19	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
20	DecisionTreeClassifier	accuracy	gini	0.706766917293233
20	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
20	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
20	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
20	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
20	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
20	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
20	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
21	DecisionTreeClassifier	accuracy	gini	0.664179104477612
21	DecisionTreeClassifier	accuracy	entropy	0.7611940298507462
21	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
21	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
21	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
21	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329

21	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
21	DecisionTreeClassifier	accuracy	entropy	0.753731343283582
22	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
22	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
22	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
22	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
22	DecisionTreeClassifier	accuracy	gini	0.664179104477612
22	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
22	DecisionTreeClassifier	accuracy	gini	0.664179104477612
22	DecisionTreeClassifier	accuracy	entropy	0.6194029850746269
23	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
23	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
23	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
23	DecisionTreeClassifier	accuracy	entropy	0.6015037593984962
23	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
23	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
23	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
23	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
24	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
24	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
24	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
24	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
24	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
24	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
24	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
24	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
25	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
25	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
25	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
25	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
25	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
25	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
25	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
25	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
1	DecisionTreeClassifier	f1	gini	0.7659574468085105
1	DecisionTreeClassifier	f1	entropy	0.7553191489361702
1	DecisionTreeClassifier	f1	gini	0.7958115183246073
1	DecisionTreeClassifier	f1	entropy	0.774869109947644
1	DecisionTreeClassifier	f1	gini	0.8041237113402062
1	DecisionTreeClassifier	f1	entropy	0.7499999999999999
1	DecisionTreeClassifier	f1	gini	0.7914438502673796
1	DecisionTreeClassifier	f1	entropy	0.7578947368421053
2	DecisionTreeClassifier	f1	gini	0.7894736842105263

2	DecisionTreeClassifier	f1	entropy	0.7897435897435897
2	DecisionTreeClassifier	f1	gini	0.8085106382978723
2	DecisionTreeClassifier	f1	entropy	0.7897435897435897
2	DecisionTreeClassifier	f1	gini	0.8041237113402062
2	DecisionTreeClassifier	f1	entropy	0.7916666666666665
2	DecisionTreeClassifier	f1	gini	0.806282722513089
2	DecisionTreeClassifier	f1	entropy	0.7959183673469387
3	DecisionTreeClassifier	f1	gini	0.7759562841530053
3	DecisionTreeClassifier	f1	entropy	0.7553191489361704
3	DecisionTreeClassifier	f1	gini	0.7333333333333333
3	DecisionTreeClassifier	f1	entropy	0.7724867724867724
3	DecisionTreeClassifier	f1	gini	0.7444444444444445
3	DecisionTreeClassifier	f1	entropy	0.7748691099476439
3	DecisionTreeClassifier	f1	gini	0.7513812154696133
3	DecisionTreeClassifier	f1	entropy	0.7872340425531914
4	DecisionTreeClassifier	f1	gini	0.8
4	DecisionTreeClassifier	f1	entropy	0.777142857142857
4	DecisionTreeClassifier	f1	gini	0.7692307692307693
4	DecisionTreeClassifier	f1	entropy	0.8089887640449439
4	DecisionTreeClassifier	f1	gini	0.7666666666666667
4	DecisionTreeClassifier	f1	entropy	0.7840909090909092
4	DecisionTreeClassifier	f1	gini	0.7597765363128492
4	DecisionTreeClassifier	f1	entropy	0.7885714285714285
5	DecisionTreeClassifier	f1	gini	0.7731958762886598
5	DecisionTreeClassifier	f1	entropy	0.7817258883248731
5	DecisionTreeClassifier	f1	gini	0.7731958762886598
5	DecisionTreeClassifier	f1	entropy	0.8118811881188119
5	DecisionTreeClassifier	f1	gini	0.7731958762886598
5	DecisionTreeClassifier	f1	entropy	0.7755102040816327
5	DecisionTreeClassifier	f1	gini	0.7604166666666667
5	DecisionTreeClassifier	f1	entropy	0.7777777777777777
6	DecisionTreeClassifier	f1	gini	0.7553191489361702
6	DecisionTreeClassifier	f1	entropy	0.7415730337078651
6	DecisionTreeClassifier	f1	gini	0.7634408602150538
6	DecisionTreeClassifier	f1	entropy	0.7650273224043715
6	DecisionTreeClassifier	f1	gini	0.7567567567567567
6	DecisionTreeClassifier	f1	entropy	0.7597765363128491
6	DecisionTreeClassifier	f1	gini	0.7486631016042781
6	DecisionTreeClassifier	f1	entropy	0.7415730337078651
7	DecisionTreeClassifier	f1	gini	0.7826086956521738
7	DecisionTreeClassifier	f1	entropy	0.7643979057591621
7	DecisionTreeClassifier	f1	gini	0.7826086956521738
7	DecisionTreeClassifier	f1	entropy	0.7958115183246073

7	DecisionTreeClassifier	f1	gini	0.7868852459016393
7	DecisionTreeClassifier	f1	entropy	0.7789473684210526
7	DecisionTreeClassifier	f1	gini	0.7486033519553073
7	DecisionTreeClassifier	f1	entropy	0.766839378238342
8	DecisionTreeClassifier	f1	gini	0.7241379310344828
8	DecisionTreeClassifier	f1	entropy	0.7717391304347825
8	DecisionTreeClassifier	f1	gini	0.7241379310344828
8	DecisionTreeClassifier	f1	entropy	0.7624309392265195
8	DecisionTreeClassifier	f1	gini	0.7241379310344828
8	DecisionTreeClassifier	f1	entropy	0.7582417582417582
8	DecisionTreeClassifier	f1	gini	0.7241379310344828
8	DecisionTreeClassifier	f1	entropy	0.7759562841530053
9	DecisionTreeClassifier	f1	gini	0.7958115183246073
9	DecisionTreeClassifier	f1	entropy	0.8148148148148148
9	DecisionTreeClassifier	f1	gini	0.7875647668393783
9	DecisionTreeClassifier	f1	entropy	0.7741935483870968
9	DecisionTreeClassifier	f1	gini	0.7978723404255319
9	DecisionTreeClassifier	f1	entropy	0.8125
9	DecisionTreeClassifier	f1	gini	0.8082901554404146
9	DecisionTreeClassifier	f1	entropy	0.7914438502673796
10	DecisionTreeClassifier	f1	gini	0.7513812154696133
10	DecisionTreeClassifier	f1	entropy	0.7473684210526316
10	DecisionTreeClassifier	f1	gini	0.7634408602150536
10	DecisionTreeClassifier	f1	entropy	0.7058823529411765
10	DecisionTreeClassifier	f1	gini	0.7513812154696133
10	DecisionTreeClassifier	f1	entropy	0.7407407407407406
10	DecisionTreeClassifier	f1	gini	0.7526881720430108
10	DecisionTreeClassifier	f1	entropy	0.7419354838709677
11	DecisionTreeClassifier	f1	gini	0.770053475935829
11	DecisionTreeClassifier	f1	entropy	0.7472527472527473
11	DecisionTreeClassifier	f1	gini	0.7650273224043715
11	DecisionTreeClassifier	f1	entropy	0.7403314917127071
11	DecisionTreeClassifier	f1	gini	0.7624309392265194
11	DecisionTreeClassifier	f1	entropy	0.7322404371584699
11	DecisionTreeClassifier	f1	gini	0.7675675675675676
11	DecisionTreeClassifier	f1	entropy	0.7213114754098361
12	DecisionTreeClassifier	f1	gini	0.7807486631016043
12	DecisionTreeClassifier	f1	entropy	0.7999999999999999
12	DecisionTreeClassifier	f1	gini	0.7555555555555555
12	DecisionTreeClassifier	f1	entropy	0.8102564102564104
12	DecisionTreeClassifier	f1	gini	0.7659574468085105
12	DecisionTreeClassifier	f1	entropy	0.7979274611398963
12	DecisionTreeClassifier	f1	gini	0.7802197802197802

12	DecisionTreeClassifier	f1	entropy	0.7939698492462312
13	DecisionTreeClassifier	f1	gini	0.7459459459459459
13	DecisionTreeClassifier	f1	entropy	0.7675675675675675
13	DecisionTreeClassifier	f1	gini	0.7540983606557377
13	DecisionTreeClassifier	f1	entropy	0.7894736842105262
13	DecisionTreeClassifier	f1	gini	0.7582417582417582
13	DecisionTreeClassifier	f1	entropy	0.7659574468085107
13	DecisionTreeClassifier	f1	gini	0.7540983606557377
13	DecisionTreeClassifier	f1	entropy	0.7741935483870968
14	DecisionTreeClassifier	f1	gini	0.7553191489361704
14	DecisionTreeClassifier	f1	entropy	0.7407407407407406
14	DecisionTreeClassifier	f1	gini	0.7448979591836735
14	DecisionTreeClassifier	f1	entropy	0.7379679144385027
14	DecisionTreeClassifier	f1	gini	0.7835051546391754
14	DecisionTreeClassifier	f1	entropy	0.7272727272727273
14	DecisionTreeClassifier	f1	gini	0.7357512953367875
14	DecisionTreeClassifier	f1	entropy	0.7619047619047619
15	DecisionTreeClassifier	f1	gini	0.7802197802197802
15	DecisionTreeClassifier	f1	entropy	0.7891891891891891
15	DecisionTreeClassifier	f1	gini	0.7634408602150536
15	DecisionTreeClassifier	f1	entropy	0.8042328042328043
15	DecisionTreeClassifier	f1	gini	0.7914438502673796
15	DecisionTreeClassifier	f1	entropy	0.7540983606557377
15	DecisionTreeClassifier	f1	gini	0.7914438502673796
15	DecisionTreeClassifier	f1	entropy	0.7849462365591398
16	DecisionTreeClassifier	f1	gini	0.7428571428571429
16	DecisionTreeClassifier	f1	entropy	0.745945945945946
16	DecisionTreeClassifier	f1	gini	0.7344632768361583
16	DecisionTreeClassifier	f1	entropy	0.7431693989071038
16	DecisionTreeClassifier	f1	gini	0.7191011235955055
16	DecisionTreeClassifier	f1	entropy	0.7553191489361702
16	DecisionTreeClassifier	f1	gini	0.7314285714285713
16	DecisionTreeClassifier	f1	entropy	0.7513227513227513
17	DecisionTreeClassifier	f1	gini	0.8172043010752688
17	DecisionTreeClassifier	f1	entropy	0.8152173913043479
17	DecisionTreeClassifier	f1	gini	0.8229166666666666
17	DecisionTreeClassifier	f1	entropy	0.8172043010752688
17	DecisionTreeClassifier	f1	gini	0.8172043010752688
17	DecisionTreeClassifier	f1	entropy	0.808743169398907
17	DecisionTreeClassifier	f1	gini	0.823529411764706
17	DecisionTreeClassifier	f1	entropy	0.8
18	DecisionTreeClassifier	f1	gini	0.8148148148148148
18	DecisionTreeClassifier	f1	entropy	0.7553191489361704

18	DecisionTreeClassifier	f1	gini	0.8085106382978724
18	DecisionTreeClassifier	f1	entropy	0.7540983606557377
18	DecisionTreeClassifier	f1	gini	0.8042328042328043
18	DecisionTreeClassifier	f1	entropy	0.7362637362637361
18	DecisionTreeClassifier	f1	gini	0.8
18	DecisionTreeClassifier	f1	entropy	0.7853403141361257
19	DecisionTreeClassifier	f1	gini	0.7213114754098361
19	DecisionTreeClassifier	f1	entropy	0.7431693989071038
19	DecisionTreeClassifier	f1	gini	0.7311827956989246
19	DecisionTreeClassifier	f1	entropy	0.7567567567567567
19	DecisionTreeClassifier	f1	gini	0.7340425531914895
19	DecisionTreeClassifier	f1	entropy	0.776595744680851
19	DecisionTreeClassifier	f1	gini	0.7252747252747254
19	DecisionTreeClassifier	f1	entropy	0.776595744680851
20	DecisionTreeClassifier	f1	gini	0.7999999999999999
20	DecisionTreeClassifier	f1	entropy	0.7918781725888324
20	DecisionTreeClassifier	f1	gini	0.82
20	DecisionTreeClassifier	f1	entropy	0.7817258883248731
20	DecisionTreeClassifier	f1	gini	0.7755102040816327
20	DecisionTreeClassifier	f1	entropy	0.8041237113402062
20	DecisionTreeClassifier	f1	gini	0.7653061224489796
20	DecisionTreeClassifier	f1	entropy	0.7777777777777777
21	DecisionTreeClassifier	f1	gini	0.7428571428571429
21	DecisionTreeClassifier	f1	entropy	0.8260869565217391
21	DecisionTreeClassifier	f1	gini	0.7845303867403314
21	DecisionTreeClassifier	f1	entropy	0.7999999999999999
21	DecisionTreeClassifier	f1	gini	0.7283236994219654
21	DecisionTreeClassifier	f1	entropy	0.7777777777777778
21	DecisionTreeClassifier	f1	gini	0.7734806629834253
21	DecisionTreeClassifier	f1	entropy	0.8216216216216216
22	DecisionTreeClassifier	f1	gini	0.75
22	DecisionTreeClassifier	f1	entropy	0.7604166666666667
22	DecisionTreeClassifier	f1	gini	0.7659574468085105
22	DecisionTreeClassifier	f1	entropy	0.7446808510638298
22	DecisionTreeClassifier	f1	gini	0.761904761904762
22	DecisionTreeClassifier	f1	entropy	0.7407407407407407
22	DecisionTreeClassifier	f1	gini	0.761904761904762
22	DecisionTreeClassifier	f1	entropy	0.7301587301587302
23	DecisionTreeClassifier	f1	gini	0.7459459459459459
23	DecisionTreeClassifier	f1	entropy	0.75
23	DecisionTreeClassifier	f1	gini	0.7717391304347825
23	DecisionTreeClassifier	f1	entropy	0.7165775401069518
23	DecisionTreeClassifier	f1	gini	0.7526881720430108

23	DecisionTreeClassifier	f1	entropy	0.7419354838709677
23	DecisionTreeClassifier	f1	gini	0.7659574468085107
23	DecisionTreeClassifier	f1	entropy	0.7322404371584699
24	DecisionTreeClassifier	f1	gini	0.7709497206703911
24	DecisionTreeClassifier	f1	entropy	0.7630057803468208
24	DecisionTreeClassifier	f1	gini	0.7777777777777778
24	DecisionTreeClassifier	f1	entropy	0.7826086956521738
24	DecisionTreeClassifier	f1	gini	0.7283236994219653
24	DecisionTreeClassifier	f1	entropy	0.7444444444444445
24	DecisionTreeClassifier	f1	gini	0.755813953488372
24	DecisionTreeClassifier	f1	entropy	0.7624309392265195
25	DecisionTreeClassifier	f1	gini	0.7956989247311826
25	DecisionTreeClassifier	f1	entropy	0.7849462365591398
25	DecisionTreeClassifier	f1	gini	0.806282722513089
25	DecisionTreeClassifier	f1	entropy	0.7934782608695653
25	DecisionTreeClassifier	f1	gini	0.7938144329896908
25	DecisionTreeClassifier	f1	entropy	0.7608695652173912
25	DecisionTreeClassifier	f1	gini	0.7978723404255319
25	DecisionTreeClassifier	f1	entropy	0.7783783783783783

Table 35: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.6791044776119403
1	RandomForestClassifier	accuracy	5	0.7388059701492538
1	RandomForestClassifier	accuracy	5	0.6940298507462687
1	RandomForestClassifier	accuracy	5	0.7611940298507462
1	RandomForestClassifier	accuracy	50	0.7761194029850746
1	RandomForestClassifier	accuracy	50	0.7238805970149254
1	RandomForestClassifier	accuracy	50	0.753731343283582
1	RandomForestClassifier	accuracy	50	0.7985074626865671
2	RandomForestClassifier	accuracy	5	0.6865671641791045
2	RandomForestClassifier	accuracy	5	0.7089552238805971
2	RandomForestClassifier	accuracy	5	0.7014925373134329
2	RandomForestClassifier	accuracy	5	0.7164179104477612
2	RandomForestClassifier	accuracy	50	0.7761194029850746
2	RandomForestClassifier	accuracy	50	0.7761194029850746
2	RandomForestClassifier	accuracy	50	0.7313432835820896
2	RandomForestClassifier	accuracy	50	0.753731343283582
3	RandomForestClassifier	accuracy	5	0.7518796992481203
3	RandomForestClassifier	accuracy	5	0.7368421052631579

3	RandomForestClassifier	accuracy	5	0.6917293233082706
3	RandomForestClassifier	accuracy	5	0.7142857142857143
3	RandomForestClassifier	accuracy	50	0.7293233082706767
3	RandomForestClassifier	accuracy	50	0.7368421052631579
3	RandomForestClassifier	accuracy	50	0.7293233082706767
3	RandomForestClassifier	accuracy	50	0.7142857142857143
4	RandomForestClassifier	accuracy	5	0.6842105263157895
4	RandomForestClassifier	accuracy	5	0.7593984962406015
4	RandomForestClassifier	accuracy	5	0.6917293233082706
4	RandomForestClassifier	accuracy	5	0.7218045112781954
4	RandomForestClassifier	accuracy	50	0.7744360902255639
4	RandomForestClassifier	accuracy	50	0.7293233082706767
4	RandomForestClassifier	accuracy	50	0.7142857142857143
4	RandomForestClassifier	accuracy	50	0.7443609022556391
5	RandomForestClassifier	accuracy	5	0.706766917293233
5	RandomForestClassifier	accuracy	5	0.6917293233082706
5	RandomForestClassifier	accuracy	5	0.7293233082706767
5	RandomForestClassifier	accuracy	5	0.6992481203007519
5	RandomForestClassifier	accuracy	50	0.7593984962406015
5	RandomForestClassifier	accuracy	50	0.7293233082706767
5	RandomForestClassifier	accuracy	50	0.7669172932330827
5	RandomForestClassifier	accuracy	50	0.7443609022556391
6	RandomForestClassifier	accuracy	5	0.753731343283582
6	RandomForestClassifier	accuracy	5	0.6716417910447762
6	RandomForestClassifier	accuracy	5	0.7313432835820896
6	RandomForestClassifier	accuracy	5	0.6567164179104478
6	RandomForestClassifier	accuracy	50	0.7164179104477612
6	RandomForestClassifier	accuracy	50	0.7388059701492538
6	RandomForestClassifier	accuracy	50	0.7089552238805971
6	RandomForestClassifier	accuracy	50	0.7238805970149254
7	RandomForestClassifier	accuracy	5	0.6791044776119403
7	RandomForestClassifier	accuracy	5	0.7089552238805971
7	RandomForestClassifier	accuracy	5	0.664179104477612
7	RandomForestClassifier	accuracy	5	0.7089552238805971
7	RandomForestClassifier	accuracy	50	0.753731343283582
7	RandomForestClassifier	accuracy	50	0.7238805970149254
7	RandomForestClassifier	accuracy	50	0.7388059701492538
7	RandomForestClassifier	accuracy	50	0.7313432835820896
8	RandomForestClassifier	accuracy	5	0.6466165413533834
8	RandomForestClassifier	accuracy	5	0.6766917293233082
8	RandomForestClassifier	accuracy	5	0.706766917293233
8	RandomForestClassifier	accuracy	5	0.706766917293233
8	RandomForestClassifier	accuracy	50	0.6992481203007519

8	RandomForestClassifier	accuracy	50	0.7218045112781954
8	RandomForestClassifier	accuracy	50	0.7142857142857143
8	RandomForestClassifier	accuracy	50	0.7218045112781954
9	RandomForestClassifier	accuracy	5	0.7142857142857143
9	RandomForestClassifier	accuracy	5	0.7218045112781954
9	RandomForestClassifier	accuracy	5	0.7142857142857143
9	RandomForestClassifier	accuracy	5	0.7819548872180451
9	RandomForestClassifier	accuracy	50	0.7744360902255639
9	RandomForestClassifier	accuracy	50	0.706766917293233
9	RandomForestClassifier	accuracy	50	0.7669172932330827
9	RandomForestClassifier	accuracy	50	0.7744360902255639
10	RandomForestClassifier	accuracy	5	0.7518796992481203
10	RandomForestClassifier	accuracy	5	0.7218045112781954
10	RandomForestClassifier	accuracy	5	0.6992481203007519
10	RandomForestClassifier	accuracy	5	0.6992481203007519
10	RandomForestClassifier	accuracy	50	0.7669172932330827
10	RandomForestClassifier	accuracy	50	0.7593984962406015
10	RandomForestClassifier	accuracy	50	0.7669172932330827
10	RandomForestClassifier	accuracy	50	0.7819548872180451
11	RandomForestClassifier	accuracy	5	0.746268656716418
11	RandomForestClassifier	accuracy	5	0.7611940298507462
11	RandomForestClassifier	accuracy	5	0.6940298507462687
11	RandomForestClassifier	accuracy	5	0.746268656716418
11	RandomForestClassifier	accuracy	50	0.7686567164179104
11	RandomForestClassifier	accuracy	50	0.753731343283582
11	RandomForestClassifier	accuracy	50	0.7835820895522388
11	RandomForestClassifier	accuracy	50	0.7388059701492538
12	RandomForestClassifier	accuracy	5	0.7238805970149254
12	RandomForestClassifier	accuracy	5	0.7014925373134329
12	RandomForestClassifier	accuracy	5	0.6791044776119403
12	RandomForestClassifier	accuracy	5	0.6940298507462687
12	RandomForestClassifier	accuracy	50	0.7835820895522388
12	RandomForestClassifier	accuracy	50	0.7910447761194029
12	RandomForestClassifier	accuracy	50	0.7313432835820896
12	RandomForestClassifier	accuracy	50	0.7611940298507462
13	RandomForestClassifier	accuracy	5	0.7142857142857143
13	RandomForestClassifier	accuracy	5	0.7142857142857143
13	RandomForestClassifier	accuracy	5	0.7443609022556391
13	RandomForestClassifier	accuracy	5	0.7593984962406015
13	RandomForestClassifier	accuracy	50	0.7518796992481203
13	RandomForestClassifier	accuracy	50	0.7819548872180451
13	RandomForestClassifier	accuracy	50	0.7669172932330827
13	RandomForestClassifier	accuracy	50	0.706766917293233

14	RandomForestClassifier	accuracy	5	0.6992481203007519
14	RandomForestClassifier	accuracy	5	0.706766917293233
14	RandomForestClassifier	accuracy	5	0.6992481203007519
14	RandomForestClassifier	accuracy	5	0.6691729323308271
14	RandomForestClassifier	accuracy	50	0.7443609022556391
14	RandomForestClassifier	accuracy	50	0.706766917293233
14	RandomForestClassifier	accuracy	50	0.7443609022556391
14	RandomForestClassifier	accuracy	50	0.7368421052631579
15	RandomForestClassifier	accuracy	5	0.6842105263157895
15	RandomForestClassifier	accuracy	5	0.7368421052631579
15	RandomForestClassifier	accuracy	5	0.7142857142857143
15	RandomForestClassifier	accuracy	5	0.706766917293233
15	RandomForestClassifier	accuracy	50	0.7443609022556391
15	RandomForestClassifier	accuracy	50	0.7819548872180451
15	RandomForestClassifier	accuracy	50	0.7518796992481203
15	RandomForestClassifier	accuracy	50	0.7744360902255639
16	RandomForestClassifier	accuracy	5	0.7164179104477612
16	RandomForestClassifier	accuracy	5	0.753731343283582
16	RandomForestClassifier	accuracy	5	0.7761194029850746
16	RandomForestClassifier	accuracy	5	0.7388059701492538
16	RandomForestClassifier	accuracy	50	0.7835820895522388
16	RandomForestClassifier	accuracy	50	0.7985074626865671
16	RandomForestClassifier	accuracy	50	0.8134328358208955
16	RandomForestClassifier	accuracy	50	0.7761194029850746
17	RandomForestClassifier	accuracy	5	0.6865671641791045
17	RandomForestClassifier	accuracy	5	0.6194029850746269
17	RandomForestClassifier	accuracy	5	0.6940298507462687
17	RandomForestClassifier	accuracy	5	0.7014925373134329
17	RandomForestClassifier	accuracy	50	0.7313432835820896
17	RandomForestClassifier	accuracy	50	0.753731343283582
17	RandomForestClassifier	accuracy	50	0.7313432835820896
17	RandomForestClassifier	accuracy	50	0.7014925373134329
18	RandomForestClassifier	accuracy	5	0.6691729323308271
18	RandomForestClassifier	accuracy	5	0.6616541353383458
18	RandomForestClassifier	accuracy	5	0.6766917293233082
18	RandomForestClassifier	accuracy	5	0.6917293233082706
18	RandomForestClassifier	accuracy	50	0.7293233082706767
18	RandomForestClassifier	accuracy	50	0.7368421052631579
18	RandomForestClassifier	accuracy	50	0.7593984962406015
18	RandomForestClassifier	accuracy	50	0.7293233082706767
19	RandomForestClassifier	accuracy	5	0.7518796992481203
19	RandomForestClassifier	accuracy	5	0.6992481203007519
19	RandomForestClassifier	accuracy	5	0.6616541353383458

19	RandomForestClassifier	accuracy	5	0.7218045112781954
19	RandomForestClassifier	accuracy	50	0.7142857142857143
19	RandomForestClassifier	accuracy	50	0.7218045112781954
19	RandomForestClassifier	accuracy	50	0.7518796992481203
19	RandomForestClassifier	accuracy	50	0.7142857142857143
20	RandomForestClassifier	accuracy	5	0.6917293233082706
20	RandomForestClassifier	accuracy	5	0.7443609022556391
20	RandomForestClassifier	accuracy	5	0.6616541353383458
20	RandomForestClassifier	accuracy	5	0.7744360902255639
20	RandomForestClassifier	accuracy	50	0.7368421052631579
20	RandomForestClassifier	accuracy	50	0.7894736842105263
20	RandomForestClassifier	accuracy	50	0.7593984962406015
20	RandomForestClassifier	accuracy	50	0.7293233082706767
21	RandomForestClassifier	accuracy	5	0.6791044776119403
21	RandomForestClassifier	accuracy	5	0.7313432835820896
21	RandomForestClassifier	accuracy	5	0.7014925373134329
21	RandomForestClassifier	accuracy	5	0.7238805970149254
21	RandomForestClassifier	accuracy	50	0.7014925373134329
21	RandomForestClassifier	accuracy	50	0.746268656716418
21	RandomForestClassifier	accuracy	50	0.746268656716418
21	RandomForestClassifier	accuracy	50	0.7388059701492538
22	RandomForestClassifier	accuracy	5	0.753731343283582
22	RandomForestClassifier	accuracy	5	0.7164179104477612
22	RandomForestClassifier	accuracy	5	0.7313432835820896
22	RandomForestClassifier	accuracy	5	0.7611940298507462
22	RandomForestClassifier	accuracy	50	0.746268656716418
22	RandomForestClassifier	accuracy	50	0.7611940298507462
22	RandomForestClassifier	accuracy	50	0.7686567164179104
22	RandomForestClassifier	accuracy	50	0.7761194029850746
23	RandomForestClassifier	accuracy	5	0.7368421052631579
23	RandomForestClassifier	accuracy	5	0.6466165413533834
23	RandomForestClassifier	accuracy	5	0.7293233082706767
23	RandomForestClassifier	accuracy	5	0.6992481203007519
23	RandomForestClassifier	accuracy	50	0.7669172932330827
23	RandomForestClassifier	accuracy	50	0.7669172932330827
23	RandomForestClassifier	accuracy	50	0.7894736842105263
23	RandomForestClassifier	accuracy	50	0.7819548872180451
24	RandomForestClassifier	accuracy	5	0.6541353383458647
24	RandomForestClassifier	accuracy	5	0.6917293233082706
24	RandomForestClassifier	accuracy	5	0.6992481203007519
24	RandomForestClassifier	accuracy	5	0.7518796992481203
24	RandomForestClassifier	accuracy	50	0.7744360902255639
24	RandomForestClassifier	accuracy	50	0.7368421052631579

24	RandomForestClassifier	accuracy	50	0.7744360902255639
24	RandomForestClassifier	accuracy	50	0.7593984962406015
25	RandomForestClassifier	accuracy	5	0.6466165413533834
25	RandomForestClassifier	accuracy	5	0.6917293233082706
25	RandomForestClassifier	accuracy	5	0.7218045112781954
25	RandomForestClassifier	accuracy	5	0.6992481203007519
25	RandomForestClassifier	accuracy	50	0.7293233082706767
25	RandomForestClassifier	accuracy	50	0.706766917293233
25	RandomForestClassifier	accuracy	50	0.6992481203007519
25	RandomForestClassifier	accuracy	50	0.7293233082706767
1	RandomForestClassifier	f1	5	0.7794871794871795
1	RandomForestClassifier	f1	5	0.8223350253807107
1	RandomForestClassifier	f1	5	0.7875647668393781
1	RandomForestClassifier	f1	5	0.8383838383838383
1	RandomForestClassifier	f1	50	0.854368932038835
1	RandomForestClassifier	f1	50	0.8195121951219513
1	RandomForestClassifier	f1	50	0.8405797101449276
1	RandomForestClassifier	f1	50	0.8682926829268293
2	RandomForestClassifier	f1	5	0.7812500000000001
2	RandomForestClassifier	f1	5	0.8020304568527918
2	RandomForestClassifier	f1	5	0.7979797979797979
2	RandomForestClassifier	f1	5	0.806122448979592
2	RandomForestClassifier	f1	50	0.854368932038835
2	RandomForestClassifier	f1	50	0.8514851485148516
2	RandomForestClassifier	f1	50	0.8235294117647058
2	RandomForestClassifier	f1	50	0.8374384236453202
3	RandomForestClassifier	f1	5	0.8390243902439024
3	RandomForestClassifier	f1	5	0.8223350253807107
3	RandomForestClassifier	f1	5	0.7918781725888324
3	RandomForestClassifier	f1	5	0.8080808080808081
3	RandomForestClassifier	f1	50	0.826923076923077
3	RandomForestClassifier	f1	50	0.8292682926829268
3	RandomForestClassifier	f1	50	0.826923076923077
3	RandomForestClassifier	f1	50	0.8173076923076923
4	RandomForestClassifier	f1	5	0.7741935483870968
4	RandomForestClassifier	f1	5	0.8350515463917527
4	RandomForestClassifier	f1	5	0.7875647668393783
4	RandomForestClassifier	f1	5	0.8042328042328043
4	RandomForestClassifier	f1	50	0.8484848484848486
4	RandomForestClassifier	f1	50	0.8163265306122449
4	RandomForestClassifier	f1	50	0.8020833333333334
4	RandomForestClassifier	f1	50	0.83
5	RandomForestClassifier	f1	5	0.8078817733990148

5	RandomForestClassifier	f1	5	0.8038277511961723
5	RandomForestClassifier	f1	5	0.8163265306122449
5	RandomForestClassifier	f1	5	0.7938144329896908
5	RandomForestClassifier	f1	50	0.8461538461538463
5	RandomForestClassifier	f1	50	0.8252427184466019
5	RandomForestClassifier	f1	50	0.848780487804878
5	RandomForestClassifier	f1	50	0.8333333333333334
6	RandomForestClassifier	f1	5	0.83248730964467
6	RandomForestClassifier	f1	5	0.7821782178217823
6	RandomForestClassifier	f1	5	0.8235294117647058
6	RandomForestClassifier	f1	5	0.7722772277227723
6	RandomForestClassifier	f1	50	0.819047619047619
6	RandomForestClassifier	f1	50	0.8325358851674641
6	RandomForestClassifier	f1	50	0.8133971291866029
6	RandomForestClassifier	f1	50	0.8246445497630333
7	RandomForestClassifier	f1	5	0.781725888324873
7	RandomForestClassifier	f1	5	0.7958115183246073
7	RandomForestClassifier	f1	5	0.7715736040609138
7	RandomForestClassifier	f1	5	0.7958115183246073
7	RandomForestClassifier	f1	50	0.8358208955223881
7	RandomForestClassifier	f1	50	0.8177339901477833
7	RandomForestClassifier	f1	50	0.8309178743961352
7	RandomForestClassifier	f1	50	0.8285714285714285
8	RandomForestClassifier	f1	5	0.7486631016042781
8	RandomForestClassifier	f1	5	0.7860696517412935
8	RandomForestClassifier	f1	5	0.8115942028985507
8	RandomForestClassifier	f1	5	0.7958115183246073
8	RandomForestClassifier	f1	50	0.801980198019802
8	RandomForestClassifier	f1	50	0.8140703517587939
8	RandomForestClassifier	f1	50	0.8080808080808081
8	RandomForestClassifier	f1	50	0.8195121951219512
9	RandomForestClassifier	f1	5	0.8061224489795918
9	RandomForestClassifier	f1	5	0.8121827411167513
9	RandomForestClassifier	f1	5	0.8041237113402062
9	RandomForestClassifier	f1	5	0.849740932642487
9	RandomForestClassifier	f1	50	0.846938775510204
9	RandomForestClassifier	f1	50	0.8078817733990148
9	RandomForestClassifier	f1	50	0.8442211055276382
9	RandomForestClassifier	f1	50	0.8484848484848486
10	RandomForestClassifier	f1	5	0.8307692307692308
10	RandomForestClassifier	f1	5	0.8140703517587939
10	RandomForestClassifier	f1	5	0.7916666666666666
10	RandomForestClassifier	f1	5	0.7979797979797979

10	RandomForestClassifier	f1	50	0.8516746411483255
10	RandomForestClassifier	f1	50	0.8383838383838383
10	RandomForestClassifier	f1	50	0.8442211055276382
10	RandomForestClassifier	f1	50	0.8542713567839196
11	RandomForestClassifier	f1	5	0.8300000000000001
11	RandomForestClassifier	f1	5	0.8350515463917526
11	RandomForestClassifier	f1	5	0.7980295566502462
11	RandomForestClassifier	f1	5	0.8282828282828283
11	RandomForestClassifier	f1	50	0.848780487804878
11	RandomForestClassifier	f1	50	0.8390243902439024
11	RandomForestClassifier	f1	50	0.859903381642512
11	RandomForestClassifier	f1	50	0.8275862068965517
12	RandomForestClassifier	f1	5	0.8082901554404145
12	RandomForestClassifier	f1	5	0.7959183673469387
12	RandomForestClassifier	f1	5	0.7860696517412935
12	RandomForestClassifier	f1	5	0.7918781725888325
12	RandomForestClassifier	f1	50	0.8571428571428571
12	RandomForestClassifier	f1	50	0.8613861386138614
12	RandomForestClassifier	f1	50	0.8252427184466019
12	RandomForestClassifier	f1	50	0.8415841584158417
13	RandomForestClassifier	f1	5	0.8061224489795918
13	RandomForestClassifier	f1	5	0.8155339805825244
13	RandomForestClassifier	f1	5	0.826530612244898
13	RandomForestClassifier	f1	5	0.8383838383838383
13	RandomForestClassifier	f1	50	0.8374384236453202
13	RandomForestClassifier	f1	50	0.8585365853658538
13	RandomForestClassifier	f1	50	0.8472906403940887
13	RandomForestClassifier	f1	50	0.8115942028985507
14	RandomForestClassifier	f1	5	0.801980198019802
14	RandomForestClassifier	f1	5	0.7979274611398963
14	RandomForestClassifier	f1	5	0.7916666666666666
14	RandomForestClassifier	f1	5	0.7864077669902911
14	RandomForestClassifier	f1	50	0.8333333333333334
14	RandomForestClassifier	f1	50	0.8115942028985507
14	RandomForestClassifier	f1	50	0.8333333333333334
14	RandomForestClassifier	f1	50	0.8309178743961353
15	RandomForestClassifier	f1	5	0.7835051546391754
15	RandomForestClassifier	f1	5	0.8223350253807107
15	RandomForestClassifier	f1	5	0.8118811881188119
15	RandomForestClassifier	f1	5	0.7914438502673796
15	RandomForestClassifier	f1	50	0.8333333333333334
15	RandomForestClassifier	f1	50	0.8542713567839196
15	RandomForestClassifier	f1	50	0.8307692307692308

15	RandomForestClassifier	f1	50	0.8514851485148515
16	RandomForestClassifier	f1	5	0.8080808080808081
16	RandomForestClassifier	f1	5	0.8405797101449276
16	RandomForestClassifier	f1	5	0.8514851485148516
16	RandomForestClassifier	f1	5	0.8325358851674641
16	RandomForestClassifier	f1	50	0.863849765258216
16	RandomForestClassifier	f1	50	0.8732394366197184
16	RandomForestClassifier	f1	50	0.8826291079812207
16	RandomForestClassifier	f1	50	0.8611111111111112
17	RandomForestClassifier	f1	5	0.7961165048543688
17	RandomForestClassifier	f1	5	0.7329842931937173
17	RandomForestClassifier	f1	5	0.7897435897435897
17	RandomForestClassifier	f1	5	0.7916666666666665
17	RandomForestClassifier	f1	50	0.8181818181818181
17	RandomForestClassifier	f1	50	0.8358208955223881
17	RandomForestClassifier	f1	50	0.8217821782178217
17	RandomForestClassifier	f1	50	0.8019801980198019
18	RandomForestClassifier	f1	5	0.768421052631579
18	RandomForestClassifier	f1	5	0.7692307692307693
18	RandomForestClassifier	f1	5	0.7794871794871795
18	RandomForestClassifier	f1	5	0.7918781725888324
18	RandomForestClassifier	f1	50	0.8125
18	RandomForestClassifier	f1	50	0.8205128205128205
18	RandomForestClassifier	f1	50	0.8315789473684212
18	RandomForestClassifier	f1	50	0.8144329896907216
19	RandomForestClassifier	f1	5	0.8405797101449276
19	RandomForestClassifier	f1	5	0.7999999999999999
19	RandomForestClassifier	f1	5	0.7692307692307693
19	RandomForestClassifier	f1	5	0.8229665071770336
19	RandomForestClassifier	f1	50	0.819047619047619
19	RandomForestClassifier	f1	50	0.8262910798122065
19	RandomForestClassifier	f1	50	0.8405797101449276
19	RandomForestClassifier	f1	50	0.8173076923076923
20	RandomForestClassifier	f1	5	0.7830687830687831
20	RandomForestClassifier	f1	5	0.8229166666666666
20	RandomForestClassifier	f1	5	0.7619047619047619
20	RandomForestClassifier	f1	5	0.8500000000000001
20	RandomForestClassifier	f1	50	0.8258706467661692
20	RandomForestClassifier	f1	50	0.8585858585858587
20	RandomForestClassifier	f1	50	0.8383838383838383
20	RandomForestClassifier	f1	50	0.8181818181818182
21	RandomForestClassifier	f1	5	0.781725888324873
21	RandomForestClassifier	f1	5	0.8163265306122448

21	RandomForestClassifier	f1	5	0.8019801980198019
21	RandomForestClassifier	f1	5	0.8102564102564104
21	RandomForestClassifier	f1	50	0.803921568627451
21	RandomForestClassifier	f1	50	0.8333333333333334
21	RandomForestClassifier	f1	50	0.8333333333333334
21	RandomForestClassifier	f1	50	0.8275862068965517
22	RandomForestClassifier	f1	5	0.8307692307692307
22	RandomForestClassifier	f1	5	0.8080808080808081
22	RandomForestClassifier	f1	5	0.8217821782178217
22	RandomForestClassifier	f1	5	0.8415841584158417
22	RandomForestClassifier	f1	50	0.8365384615384615
22	RandomForestClassifier	f1	50	0.8461538461538461
22	RandomForestClassifier	f1	50	0.8530805687203793
22	RandomForestClassifier	f1	50	0.8529411764705882
23	RandomForestClassifier	f1	5	0.8186528497409327
23	RandomForestClassifier	f1	5	0.7539267015706805
23	RandomForestClassifier	f1	5	0.8085106382978724
23	RandomForestClassifier	f1	5	0.7849462365591398
23	RandomForestClassifier	f1	50	0.848780487804878
23	RandomForestClassifier	f1	50	0.848780487804878
23	RandomForestClassifier	f1	50	0.8653846153846155
23	RandomForestClassifier	f1	50	0.8585365853658538
24	RandomForestClassifier	f1	5	0.7653061224489796
24	RandomForestClassifier	f1	5	0.7875647668393783
24	RandomForestClassifier	f1	5	0.7894736842105262
24	RandomForestClassifier	f1	5	0.83248730964467
24	RandomForestClassifier	f1	50	0.8484848484848486
24	RandomForestClassifier	f1	50	0.8186528497409327
24	RandomForestClassifier	f1	50	0.8500000000000001
24	RandomForestClassifier	f1	50	0.836734693877551
25	RandomForestClassifier	f1	5	0.7564766839378239
25	RandomForestClassifier	f1	5	0.7853403141361257
25	RandomForestClassifier	f1	5	0.8102564102564103
25	RandomForestClassifier	f1	5	0.801980198019802
25	RandomForestClassifier	f1	50	0.8252427184466019
25	RandomForestClassifier	f1	50	0.8078817733990148
25	RandomForestClassifier	f1	50	0.8076923076923077
25	RandomForestClassifier	f1	50	0.8252427184466019

Table 36: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.7910447761194029
1	SVC	accuracy	linear	0.7910447761194029
1	SVC	accuracy	rbf	0.753731343283582
1	SVC	accuracy	rbf	0.753731343283582
1	SVC	accuracy	linear	0.7910447761194029
1	SVC	accuracy	linear	0.7910447761194029
1	SVC	accuracy	rbf	0.753731343283582
1	SVC	accuracy	rbf	0.753731343283582
2	SVC	accuracy	linear	0.7164179104477612
2	SVC	accuracy	linear	0.7164179104477612
2	SVC	accuracy	rbf	0.6865671641791045
2	SVC	accuracy	rbf	0.6865671641791045
2	SVC	accuracy	linear	0.7164179104477612
2	SVC	accuracy	linear	0.7164179104477612
2	SVC	accuracy	rbf	0.6865671641791045
2	SVC	accuracy	rbf	0.6865671641791045
3	SVC	accuracy	linear	0.7218045112781954
3	SVC	accuracy	linear	0.7218045112781954
3	SVC	accuracy	rbf	0.7368421052631579
3	SVC	accuracy	rbf	0.7368421052631579
3	SVC	accuracy	linear	0.7218045112781954
3	SVC	accuracy	linear	0.7218045112781954
3	SVC	accuracy	rbf	0.7368421052631579
3	SVC	accuracy	rbf	0.7368421052631579
4	SVC	accuracy	linear	0.7669172932330827
4	SVC	accuracy	linear	0.7669172932330827
4	SVC	accuracy	rbf	0.7443609022556391
4	SVC	accuracy	rbf	0.7443609022556391
4	SVC	accuracy	linear	0.7669172932330827
4	SVC	accuracy	linear	0.7669172932330827
4	SVC	accuracy	rbf	0.7443609022556391
4	SVC	accuracy	rbf	0.7443609022556391
5	SVC	accuracy	linear	0.7593984962406015
5	SVC	accuracy	linear	0.7593984962406015
5	SVC	accuracy	rbf	0.7593984962406015
5	SVC	accuracy	rbf	0.7593984962406015
5	SVC	accuracy	linear	0.7593984962406015
5	SVC	accuracy	linear	0.7593984962406015
5	SVC	accuracy	rbf	0.7593984962406015
5	SVC	accuracy	rbf	0.7593984962406015
6	SVC	accuracy	linear	0.7611940298507462
6	SVC	accuracy	linear	0.7611940298507462

6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	linear	0.7611940298507462
6	SVC	accuracy	linear	0.7611940298507462
6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	rbf	0.7611940298507462
7	SVC	accuracy	linear	0.7388059701492538
7	SVC	accuracy	linear	0.7388059701492538
7	SVC	accuracy	rbf	0.7388059701492538
7	SVC	accuracy	rbf	0.7388059701492538
7	SVC	accuracy	linear	0.7388059701492538
7	SVC	accuracy	linear	0.7388059701492538
7	SVC	accuracy	rbf	0.7388059701492538
7	SVC	accuracy	rbf	0.7388059701492538
8	SVC	accuracy	linear	0.7142857142857143
8	SVC	accuracy	linear	0.7142857142857143
8	SVC	accuracy	rbf	0.7368421052631579
8	SVC	accuracy	rbf	0.7368421052631579
8	SVC	accuracy	linear	0.7142857142857143
8	SVC	accuracy	linear	0.7142857142857143
8	SVC	accuracy	rbf	0.7368421052631579
8	SVC	accuracy	rbf	0.7368421052631579
9	SVC	accuracy	linear	0.7443609022556391
9	SVC	accuracy	linear	0.7443609022556391
9	SVC	accuracy	rbf	0.7593984962406015
9	SVC	accuracy	rbf	0.7593984962406015
9	SVC	accuracy	linear	0.7443609022556391
9	SVC	accuracy	linear	0.7443609022556391
9	SVC	accuracy	rbf	0.7593984962406015
9	SVC	accuracy	rbf	0.7593984962406015
10	SVC	accuracy	linear	0.7819548872180451
10	SVC	accuracy	linear	0.7819548872180451
10	SVC	accuracy	rbf	0.7368421052631579
10	SVC	accuracy	rbf	0.7368421052631579
10	SVC	accuracy	linear	0.7819548872180451
10	SVC	accuracy	linear	0.7819548872180451
10	SVC	accuracy	rbf	0.7368421052631579
10	SVC	accuracy	rbf	0.7368421052631579
11	SVC	accuracy	linear	0.7611940298507462
11	SVC	accuracy	linear	0.7611940298507462
11	SVC	accuracy	rbf	0.7686567164179104
11	SVC	accuracy	rbf	0.7686567164179104
11	SVC	accuracy	linear	0.7611940298507462

11	SVC	accuracy	linear	0.7611940298507462
11	SVC	accuracy	rbf	0.7686567164179104
11	SVC	accuracy	rbf	0.7686567164179104
12	SVC	accuracy	linear	0.7611940298507462
12	SVC	accuracy	linear	0.7611940298507462
12	SVC	accuracy	rbf	0.7835820895522388
12	SVC	accuracy	rbf	0.7835820895522388
12	SVC	accuracy	linear	0.7611940298507462
12	SVC	accuracy	linear	0.7611940298507462
12	SVC	accuracy	rbf	0.7835820895522388
12	SVC	accuracy	rbf	0.7835820895522388
13	SVC	accuracy	linear	0.7593984962406015
13	SVC	accuracy	linear	0.7593984962406015
13	SVC	accuracy	rbf	0.7593984962406015
13	SVC	accuracy	rbf	0.7593984962406015
13	SVC	accuracy	linear	0.7593984962406015
13	SVC	accuracy	linear	0.7593984962406015
13	SVC	accuracy	rbf	0.7593984962406015
13	SVC	accuracy	rbf	0.7593984962406015
14	SVC	accuracy	linear	0.6917293233082706
14	SVC	accuracy	linear	0.6917293233082706
14	SVC	accuracy	rbf	0.7293233082706767
14	SVC	accuracy	rbf	0.7293233082706767
14	SVC	accuracy	linear	0.6917293233082706
14	SVC	accuracy	linear	0.6917293233082706
14	SVC	accuracy	rbf	0.7293233082706767
14	SVC	accuracy	rbf	0.7293233082706767
15	SVC	accuracy	linear	0.7819548872180451
15	SVC	accuracy	linear	0.7819548872180451
15	SVC	accuracy	rbf	0.7593984962406015
15	SVC	accuracy	rbf	0.7593984962406015
15	SVC	accuracy	linear	0.7819548872180451
15	SVC	accuracy	linear	0.7819548872180451
15	SVC	accuracy	rbf	0.7593984962406015
15	SVC	accuracy	rbf	0.7593984962406015
16	SVC	accuracy	linear	0.753731343283582
16	SVC	accuracy	linear	0.753731343283582
16	SVC	accuracy	rbf	0.753731343283582
16	SVC	accuracy	rbf	0.753731343283582
16	SVC	accuracy	linear	0.753731343283582
16	SVC	accuracy	linear	0.753731343283582
16	SVC	accuracy	rbf	0.753731343283582
16	SVC	accuracy	rbf	0.753731343283582

17	SVC	accuracy	linear	0.746268656716418
17	SVC	accuracy	linear	0.746268656716418
17	SVC	accuracy	rbf	0.7313432835820896
17	SVC	accuracy	rbf	0.7313432835820896
17	SVC	accuracy	linear	0.746268656716418
17	SVC	accuracy	linear	0.746268656716418
17	SVC	accuracy	rbf	0.7313432835820896
17	SVC	accuracy	rbf	0.7313432835820896
18	SVC	accuracy	linear	0.7669172932330827
18	SVC	accuracy	linear	0.7669172932330827
18	SVC	accuracy	rbf	0.7443609022556391
18	SVC	accuracy	rbf	0.7443609022556391
18	SVC	accuracy	linear	0.7669172932330827
18	SVC	accuracy	linear	0.7669172932330827
18	SVC	accuracy	rbf	0.7443609022556391
18	SVC	accuracy	rbf	0.7443609022556391
19	SVC	accuracy	linear	0.7443609022556391
19	SVC	accuracy	linear	0.7443609022556391
19	SVC	accuracy	rbf	0.7218045112781954
19	SVC	accuracy	rbf	0.7218045112781954
19	SVC	accuracy	linear	0.7443609022556391
19	SVC	accuracy	linear	0.7443609022556391
19	SVC	accuracy	rbf	0.7218045112781954
19	SVC	accuracy	rbf	0.7218045112781954
20	SVC	accuracy	linear	0.7593984962406015
20	SVC	accuracy	linear	0.7593984962406015
20	SVC	accuracy	rbf	0.7443609022556391
20	SVC	accuracy	rbf	0.7443609022556391
20	SVC	accuracy	linear	0.7593984962406015
20	SVC	accuracy	linear	0.7593984962406015
20	SVC	accuracy	rbf	0.7443609022556391
20	SVC	accuracy	rbf	0.7443609022556391
21	SVC	accuracy	linear	0.7611940298507462
21	SVC	accuracy	linear	0.7611940298507462
21	SVC	accuracy	rbf	0.7761194029850746
21	SVC	accuracy	rbf	0.7761194029850746
21	SVC	accuracy	linear	0.7611940298507462
21	SVC	accuracy	linear	0.7611940298507462
21	SVC	accuracy	rbf	0.7761194029850746
21	SVC	accuracy	rbf	0.7761194029850746
22	SVC	accuracy	linear	0.7611940298507462
22	SVC	accuracy	linear	0.7611940298507462
22	SVC	accuracy	rbf	0.7238805970149254

22	SVC	accuracy	rbf	0.7238805970149254
22	SVC	accuracy	linear	0.7611940298507462
22	SVC	accuracy	linear	0.7611940298507462
22	SVC	accuracy	rbf	0.7238805970149254
22	SVC	accuracy	rbf	0.7238805970149254
23	SVC	accuracy	linear	0.7669172932330827
23	SVC	accuracy	linear	0.7669172932330827
23	SVC	accuracy	rbf	0.7819548872180451
23	SVC	accuracy	rbf	0.7819548872180451
23	SVC	accuracy	linear	0.7669172932330827
23	SVC	accuracy	linear	0.7669172932330827
23	SVC	accuracy	rbf	0.7819548872180451
23	SVC	accuracy	rbf	0.7819548872180451
24	SVC	accuracy	linear	0.7669172932330827
24	SVC	accuracy	linear	0.7669172932330827
24	SVC	accuracy	rbf	0.7518796992481203
24	SVC	accuracy	rbf	0.7518796992481203
24	SVC	accuracy	linear	0.7669172932330827
24	SVC	accuracy	linear	0.7669172932330827
24	SVC	accuracy	rbf	0.7518796992481203
24	SVC	accuracy	rbf	0.7518796992481203
25	SVC	accuracy	linear	0.7142857142857143
25	SVC	accuracy	linear	0.7142857142857143
25	SVC	accuracy	rbf	0.6917293233082706
25	SVC	accuracy	rbf	0.6917293233082706
25	SVC	accuracy	linear	0.7142857142857143
25	SVC	accuracy	linear	0.7142857142857143
25	SVC	accuracy	rbf	0.6917293233082706
25	SVC	accuracy	rbf	0.6917293233082706
1	SVC	f1	linear	0.8541666666666667
1	SVC	f1	linear	0.8541666666666667
1	SVC	f1	rbf	0.8421052631578948
1	SVC	f1	rbf	0.8421052631578948
1	SVC	f1	linear	0.8541666666666667
1	SVC	f1	linear	0.8541666666666667
1	SVC	f1	rbf	0.8421052631578948
1	SVC	f1	rbf	0.8421052631578948
2	SVC	f1	linear	0.7999999999999999
2	SVC	f1	linear	0.7999999999999999
2	SVC	f1	rbf	0.7878787878787878
2	SVC	f1	rbf	0.7878787878787878
2	SVC	f1	linear	0.7999999999999999
2	SVC	f1	linear	0.7999999999999999

2	SVC	f1	rbf	0.787878787878788
2	SVC	f1	rbf	0.787878787878788
3	SVC	f1	linear	0.806282722513089
3	SVC	f1	linear	0.806282722513089
3	SVC	f1	rbf	0.8309178743961353
3	SVC	f1	rbf	0.8309178743961353
3	SVC	f1	linear	0.806282722513089
3	SVC	f1	linear	0.806282722513089
3	SVC	f1	rbf	0.8309178743961353
3	SVC	f1	rbf	0.8309178743961353
4	SVC	f1	linear	0.837696335078534
4	SVC	f1	linear	0.837696335078534
4	SVC	f1	rbf	0.83
4	SVC	f1	rbf	0.83
4	SVC	f1	linear	0.837696335078534
4	SVC	f1	linear	0.837696335078534
4	SVC	f1	rbf	0.83
4	SVC	f1	rbf	0.83
5	SVC	f1	linear	0.8415841584158414
5	SVC	f1	linear	0.8415841584158414
5	SVC	f1	rbf	0.8461538461538463
5	SVC	f1	rbf	0.8461538461538463
5	SVC	f1	linear	0.8415841584158414
5	SVC	f1	linear	0.8415841584158414
5	SVC	f1	rbf	0.8461538461538463
5	SVC	f1	rbf	0.8461538461538463
6	SVC	f1	linear	0.8400000000000001
6	SVC	f1	linear	0.8400000000000001
6	SVC	f1	rbf	0.8446601941747574
6	SVC	f1	rbf	0.8446601941747574
6	SVC	f1	linear	0.8400000000000001
6	SVC	f1	linear	0.8400000000000001
6	SVC	f1	rbf	0.8446601941747574
6	SVC	f1	rbf	0.8446601941747574
7	SVC	f1	linear	0.8205128205128204
7	SVC	f1	linear	0.8205128205128204
7	SVC	f1	rbf	0.8309178743961352
7	SVC	f1	rbf	0.8309178743961352
7	SVC	f1	linear	0.8205128205128204
7	SVC	f1	linear	0.8205128205128204
7	SVC	f1	rbf	0.8309178743961352
7	SVC	f1	rbf	0.8309178743961352
8	SVC	f1	linear	0.8020833333333334

8	SVC	f1	linear	0.8020833333333334
8	SVC	f1	rbf	0.8275862068965516
8	SVC	f1	rbf	0.8275862068965516
8	SVC	f1	linear	0.8020833333333334
8	SVC	f1	linear	0.8020833333333334
8	SVC	f1	rbf	0.8275862068965516
8	SVC	f1	rbf	0.8275862068965516
9	SVC	f1	linear	0.8229166666666666
9	SVC	f1	linear	0.8229166666666666
9	SVC	f1	rbf	0.8446601941747574
9	SVC	f1	rbf	0.8446601941747574
9	SVC	f1	linear	0.8229166666666666
9	SVC	f1	linear	0.8229166666666666
9	SVC	f1	rbf	0.8446601941747574
9	SVC	f1	rbf	0.8446601941747574
10	SVC	f1	linear	0.8512820512820513
10	SVC	f1	linear	0.8512820512820513
10	SVC	f1	rbf	0.8275862068965516
10	SVC	f1	rbf	0.8275862068965516
10	SVC	f1	linear	0.8512820512820513
10	SVC	f1	linear	0.8512820512820513
10	SVC	f1	rbf	0.8275862068965516
10	SVC	f1	rbf	0.8275862068965516
11	SVC	f1	linear	0.8383838383838383
11	SVC	f1	linear	0.8383838383838383
11	SVC	f1	rbf	0.8530805687203793
11	SVC	f1	rbf	0.8530805687203793
11	SVC	f1	linear	0.8383838383838383
11	SVC	f1	linear	0.8383838383838383
11	SVC	f1	rbf	0.8530805687203793
11	SVC	f1	rbf	0.8530805687203793
12	SVC	f1	linear	0.8315789473684212
12	SVC	f1	linear	0.8315789473684212
12	SVC	f1	rbf	0.8585365853658538
12	SVC	f1	rbf	0.8585365853658538
12	SVC	f1	linear	0.8315789473684212
12	SVC	f1	linear	0.8315789473684212
12	SVC	f1	rbf	0.8585365853658538
12	SVC	f1	rbf	0.8585365853658538
13	SVC	f1	linear	0.8333333333333333
13	SVC	f1	linear	0.8333333333333333
13	SVC	f1	rbf	0.8446601941747574
13	SVC	f1	rbf	0.8446601941747574

13	SVC	f1	linear	0.8333333333333333
13	SVC	f1	linear	0.8333333333333333
13	SVC	f1	rbf	0.8446601941747574
13	SVC	f1	rbf	0.8446601941747574
14	SVC	f1	linear	0.7939698492462313
14	SVC	f1	linear	0.7939698492462313
14	SVC	f1	rbf	0.8252427184466019
14	SVC	f1	rbf	0.8252427184466019
14	SVC	f1	linear	0.7939698492462313
14	SVC	f1	linear	0.7939698492462313
14	SVC	f1	rbf	0.8252427184466019
14	SVC	f1	rbf	0.8252427184466019
15	SVC	f1	linear	0.852791878172589
15	SVC	f1	linear	0.852791878172589
15	SVC	f1	rbf	0.8446601941747574
15	SVC	f1	rbf	0.8446601941747574
15	SVC	f1	linear	0.852791878172589
15	SVC	f1	linear	0.852791878172589
15	SVC	f1	rbf	0.8446601941747574
15	SVC	f1	rbf	0.8446601941747574
16	SVC	f1	linear	0.8421052631578948
16	SVC	f1	linear	0.8421052631578948
16	SVC	f1	rbf	0.8493150684931507
16	SVC	f1	rbf	0.8493150684931507
16	SVC	f1	linear	0.8421052631578948
16	SVC	f1	linear	0.8421052631578948
16	SVC	f1	rbf	0.8493150684931507
16	SVC	f1	rbf	0.8493150684931507
17	SVC	f1	linear	0.8247422680412372
17	SVC	f1	linear	0.8247422680412372
17	SVC	f1	rbf	0.8252427184466019
17	SVC	f1	rbf	0.8252427184466019
17	SVC	f1	linear	0.8247422680412372
17	SVC	f1	linear	0.8247422680412372
17	SVC	f1	rbf	0.8252427184466019
17	SVC	f1	rbf	0.8252427184466019
18	SVC	f1	linear	0.8306010928961749
18	SVC	f1	linear	0.8306010928961749
18	SVC	f1	rbf	0.8282828282828283
18	SVC	f1	rbf	0.8282828282828283
18	SVC	f1	linear	0.8306010928961749
18	SVC	f1	linear	0.8306010928961749
18	SVC	f1	rbf	0.8282828282828283

18	SVC	f1	rbf	0.8282828282828283
19	SVC	f1	linear	0.8333333333333334
19	SVC	f1	linear	0.8333333333333334
19	SVC	f1	rbf	0.8246445497630333
19	SVC	f1	rbf	0.8246445497630333
19	SVC	f1	linear	0.8333333333333334
19	SVC	f1	linear	0.8333333333333334
19	SVC	f1	rbf	0.8246445497630333
19	SVC	f1	rbf	0.8246445497630333
20	SVC	f1	linear	0.8297872340425532
20	SVC	f1	linear	0.8297872340425532
20	SVC	f1	rbf	0.8316831683168318
20	SVC	f1	rbf	0.8316831683168318
20	SVC	f1	linear	0.8297872340425532
20	SVC	f1	linear	0.8297872340425532
20	SVC	f1	rbf	0.8316831683168318
20	SVC	f1	rbf	0.8316831683168318
21	SVC	f1	linear	0.8350515463917526
21	SVC	f1	linear	0.8350515463917526
21	SVC	f1	rbf	0.8514851485148516
21	SVC	f1	rbf	0.8514851485148516
21	SVC	f1	linear	0.8350515463917526
21	SVC	f1	linear	0.8350515463917526
21	SVC	f1	rbf	0.8514851485148516
21	SVC	f1	rbf	0.8514851485148516
22	SVC	f1	linear	0.8367346938775511
22	SVC	f1	linear	0.8367346938775511
22	SVC	f1	rbf	0.8246445497630333
22	SVC	f1	rbf	0.8246445497630333
22	SVC	f1	linear	0.8367346938775511
22	SVC	f1	linear	0.8367346938775511
22	SVC	f1	rbf	0.8246445497630333
22	SVC	f1	rbf	0.8246445497630333
23	SVC	f1	linear	0.841025641025641
23	SVC	f1	linear	0.841025641025641
23	SVC	f1	rbf	0.8585365853658538
23	SVC	f1	rbf	0.8585365853658538
23	SVC	f1	linear	0.841025641025641
23	SVC	f1	linear	0.841025641025641
23	SVC	f1	rbf	0.8585365853658538
23	SVC	f1	rbf	0.8585365853658538
24	SVC	f1	linear	0.8359788359788359
24	SVC	f1	linear	0.8359788359788359

24	SVC	f1	rbf	0.8374384236453202
24	SVC	f1	rbf	0.8374384236453202
24	SVC	f1	linear	0.8359788359788359
24	SVC	f1	linear	0.8359788359788359
24	SVC	f1	rbf	0.8374384236453202
24	SVC	f1	rbf	0.8374384236453202
25	SVC	f1	linear	0.8080808080808081
25	SVC	f1	linear	0.8080808080808081
25	SVC	f1	rbf	0.8019323671497586
25	SVC	f1	rbf	0.8019323671497586
25	SVC	f1	linear	0.8080808080808081
25	SVC	f1	linear	0.8080808080808081
25	SVC	f1	rbf	0.8019323671497586
25	SVC	f1	rbf	0.8019323671497586

Table 37: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
1	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
1	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
1	DecisionTreeClassifier	accuracy	entropy	0.7611940298507462
1	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
1	DecisionTreeClassifier	accuracy	entropy	0.753731343283582
1	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
1	DecisionTreeClassifier	accuracy	entropy	0.753731343283582
2	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
2	DecisionTreeClassifier	accuracy	entropy	0.5970149253731343
2	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
2	DecisionTreeClassifier	accuracy	entropy	0.6044776119402985
2	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
2	DecisionTreeClassifier	accuracy	entropy	0.6044776119402985
2	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
2	DecisionTreeClassifier	accuracy	entropy	0.6119402985074627
3	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
3	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
3	DecisionTreeClassifier	accuracy	gini	0.706766917293233
3	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
3	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
3	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
3	DecisionTreeClassifier	accuracy	gini	0.6616541353383458

3	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
4	DecisionTreeClassifier	accuracy	gini	0.631578947368421
4	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
4	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
4	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
4	DecisionTreeClassifier	accuracy	gini	0.6015037593984962
4	DecisionTreeClassifier	accuracy	entropy	0.5864661654135338
4	DecisionTreeClassifier	accuracy	gini	0.631578947368421
4	DecisionTreeClassifier	accuracy	entropy	0.6015037593984962
5	DecisionTreeClassifier	accuracy	gini	0.6090225563909775
5	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
5	DecisionTreeClassifier	accuracy	gini	0.5864661654135338
5	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
5	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
5	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
5	DecisionTreeClassifier	accuracy	gini	0.6090225563909775
5	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
6	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
6	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
6	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
6	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
6	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
6	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
6	DecisionTreeClassifier	accuracy	gini	0.664179104477612
6	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
7	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
7	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
7	DecisionTreeClassifier	accuracy	gini	0.664179104477612
7	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
7	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
7	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
7	DecisionTreeClassifier	accuracy	gini	0.664179104477612
7	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
8	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
8	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
8	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
8	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
8	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
8	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
8	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
8	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
9	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
9	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519

9	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
9	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
9	DecisionTreeClassifier	accuracy	gini	0.706766917293233
9	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
9	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
9	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
10	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
10	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
10	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
10	DecisionTreeClassifier	accuracy	entropy	0.6165413533834586
10	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
10	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
10	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
10	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
11	DecisionTreeClassifier	accuracy	gini	0.664179104477612
11	DecisionTreeClassifier	accuracy	entropy	0.746268656716418
11	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
11	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
11	DecisionTreeClassifier	accuracy	gini	0.664179104477612
11	DecisionTreeClassifier	accuracy	entropy	0.7313432835820896
11	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
11	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
12	DecisionTreeClassifier	accuracy	gini	0.746268656716418
12	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
12	DecisionTreeClassifier	accuracy	gini	0.7388059701492538
12	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
12	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
12	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
12	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
12	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
13	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
13	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
13	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
13	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
13	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
13	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
13	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
13	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
14	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
14	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
14	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
14	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
14	DecisionTreeClassifier	accuracy	gini	0.6541353383458647

14	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
14	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
14	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
15	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
15	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
15	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
15	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
15	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
15	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
15	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
15	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
16	DecisionTreeClassifier	accuracy	gini	0.753731343283582
16	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
16	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
16	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
16	DecisionTreeClassifier	accuracy	gini	0.7313432835820896
16	DecisionTreeClassifier	accuracy	entropy	0.7313432835820896
16	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
16	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
17	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
17	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
17	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
17	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
17	DecisionTreeClassifier	accuracy	gini	0.664179104477612
17	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
17	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
17	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
18	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
18	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
18	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
18	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
18	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
18	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
18	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
18	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
19	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
19	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
19	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
19	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
19	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
19	DecisionTreeClassifier	accuracy	entropy	0.6015037593984962
19	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
19	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834

20	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
20	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
20	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
20	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
20	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
20	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
20	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
20	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
21	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
21	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
21	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
21	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
21	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
21	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
21	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
21	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
22	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
22	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
22	DecisionTreeClassifier	accuracy	gini	0.7388059701492538
22	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
22	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
22	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
22	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
22	DecisionTreeClassifier	accuracy	entropy	0.746268656716418
23	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
23	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
23	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
23	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
23	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
23	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
23	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
23	DecisionTreeClassifier	accuracy	entropy	0.6240601503759399
24	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
24	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
24	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
24	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
24	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
24	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
24	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
24	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
25	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
25	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
25	DecisionTreeClassifier	accuracy	gini	0.7293233082706767

25	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
25	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
25	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
25	DecisionTreeClassifier	accuracy	gini	0.7443609022556391
25	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
1	DecisionTreeClassifier	f1	gini	0.7555555555555555
1	DecisionTreeClassifier	f1	entropy	0.8042328042328043
1	DecisionTreeClassifier	f1	gini	0.7526881720430109
1	DecisionTreeClassifier	f1	entropy	0.8297872340425532
1	DecisionTreeClassifier	f1	gini	0.7528089887640449
1	DecisionTreeClassifier	f1	entropy	0.8290155440414508
1	DecisionTreeClassifier	f1	gini	0.729281767955801
1	DecisionTreeClassifier	f1	entropy	0.8253968253968254
2	DecisionTreeClassifier	f1	gini	0.7932960893854748
2	DecisionTreeClassifier	f1	entropy	0.7096774193548387
2	DecisionTreeClassifier	f1	gini	0.7955801104972374
2	DecisionTreeClassifier	f1	entropy	0.7103825136612022
2	DecisionTreeClassifier	f1	gini	0.7888888888888889
2	DecisionTreeClassifier	f1	entropy	0.7135135135135136
2	DecisionTreeClassifier	f1	gini	0.7888888888888889
2	DecisionTreeClassifier	f1	entropy	0.7173913043478262
3	DecisionTreeClassifier	f1	gini	0.7717391304347825
3	DecisionTreeClassifier	f1	entropy	0.7909604519774012
3	DecisionTreeClassifier	f1	gini	0.7914438502673796
3	DecisionTreeClassifier	f1	entropy	0.768361581920904
3	DecisionTreeClassifier	f1	gini	0.7789473684210526
3	DecisionTreeClassifier	f1	entropy	0.8108108108108107
3	DecisionTreeClassifier	f1	gini	0.7540983606557377
3	DecisionTreeClassifier	f1	entropy	0.7955801104972376
4	DecisionTreeClassifier	f1	gini	0.7262569832402235
4	DecisionTreeClassifier	f1	entropy	0.7444444444444445
4	DecisionTreeClassifier	f1	gini	0.7159090909090909
4	DecisionTreeClassifier	f1	entropy	0.7333333333333333
4	DecisionTreeClassifier	f1	gini	0.6971428571428571
4	DecisionTreeClassifier	f1	entropy	0.6783625730994153
4	DecisionTreeClassifier	f1	gini	0.7231638418079096
4	DecisionTreeClassifier	f1	entropy	0.6936416184971099
5	DecisionTreeClassifier	f1	gini	0.7111111111111111
5	DecisionTreeClassifier	f1	entropy	0.7486033519553073
5	DecisionTreeClassifier	f1	gini	0.6857142857142856
5	DecisionTreeClassifier	f1	entropy	0.7608695652173912
5	DecisionTreeClassifier	f1	gini	0.7333333333333333
5	DecisionTreeClassifier	f1	entropy	0.7582417582417582

5	DecisionTreeClassifier	f1	gini	0.7078651685393259
5	DecisionTreeClassifier	f1	entropy	0.7666666666666667
6	DecisionTreeClassifier	f1	gini	0.7789473684210526
6	DecisionTreeClassifier	f1	entropy	0.7368421052631579
6	DecisionTreeClassifier	f1	gini	0.7675675675675676
6	DecisionTreeClassifier	f1	entropy	0.7446808510638298
6	DecisionTreeClassifier	f1	gini	0.7659574468085105
6	DecisionTreeClassifier	f1	entropy	0.7486631016042781
6	DecisionTreeClassifier	f1	gini	0.7593582887700534
6	DecisionTreeClassifier	f1	entropy	0.7853403141361256
7	DecisionTreeClassifier	f1	gini	0.7513227513227513
7	DecisionTreeClassifier	f1	entropy	0.7567567567567567
7	DecisionTreeClassifier	f1	gini	0.7593582887700534
7	DecisionTreeClassifier	f1	entropy	0.7659574468085105
7	DecisionTreeClassifier	f1	gini	0.7513227513227513
7	DecisionTreeClassifier	f1	entropy	0.7431693989071038
7	DecisionTreeClassifier	f1	gini	0.761904761904762
7	DecisionTreeClassifier	f1	entropy	0.7444444444444445
8	DecisionTreeClassifier	f1	gini	0.7802197802197802
8	DecisionTreeClassifier	f1	entropy	0.7126436781609194
8	DecisionTreeClassifier	f1	gini	0.7597765363128492
8	DecisionTreeClassifier	f1	entropy	0.7231638418079096
8	DecisionTreeClassifier	f1	gini	0.7759562841530053
8	DecisionTreeClassifier	f1	entropy	0.7526881720430108
8	DecisionTreeClassifier	f1	gini	0.7666666666666667
8	DecisionTreeClassifier	f1	entropy	0.7362637362637361
9	DecisionTreeClassifier	f1	gini	0.7916666666666666
9	DecisionTreeClassifier	f1	entropy	0.7872340425531914
9	DecisionTreeClassifier	f1	gini	0.7789473684210526
9	DecisionTreeClassifier	f1	entropy	0.7802197802197802
9	DecisionTreeClassifier	f1	gini	0.7914438502673796
9	DecisionTreeClassifier	f1	entropy	0.7759562841530053
9	DecisionTreeClassifier	f1	gini	0.7830687830687831
9	DecisionTreeClassifier	f1	entropy	0.7891891891891891
10	DecisionTreeClassifier	f1	gini	0.7540983606557377
10	DecisionTreeClassifier	f1	entropy	0.7419354838709677
10	DecisionTreeClassifier	f1	gini	0.7513812154696133
10	DecisionTreeClassifier	f1	entropy	0.7301587301587302
10	DecisionTreeClassifier	f1	gini	0.7650273224043715
10	DecisionTreeClassifier	f1	entropy	0.7539267015706805
10	DecisionTreeClassifier	f1	gini	0.7608695652173912
10	DecisionTreeClassifier	f1	entropy	0.7419354838709677
11	DecisionTreeClassifier	f1	gini	0.7643979057591621

11	DecisionTreeClassifier	f1	entropy	0.8172043010752688
11	DecisionTreeClassifier	f1	gini	0.7604166666666667
11	DecisionTreeClassifier	f1	entropy	0.7936507936507936
11	DecisionTreeClassifier	f1	gini	0.7643979057591621
11	DecisionTreeClassifier	f1	entropy	0.8085106382978723
11	DecisionTreeClassifier	f1	gini	0.7724867724867724
11	DecisionTreeClassifier	f1	entropy	0.8020833333333333
12	DecisionTreeClassifier	f1	gini	0.8172043010752688
12	DecisionTreeClassifier	f1	entropy	0.774869109947644
12	DecisionTreeClassifier	f1	gini	0.8128342245989305
12	DecisionTreeClassifier	f1	entropy	0.7958115183246073
12	DecisionTreeClassifier	f1	gini	0.7936507936507936
12	DecisionTreeClassifier	f1	entropy	0.783068783068783
12	DecisionTreeClassifier	f1	gini	0.7999999999999999
12	DecisionTreeClassifier	f1	entropy	0.7872340425531915
13	DecisionTreeClassifier	f1	gini	0.7159090909090909
13	DecisionTreeClassifier	f1	entropy	0.7431693989071038
13	DecisionTreeClassifier	f1	gini	0.7191011235955056
13	DecisionTreeClassifier	f1	entropy	0.7472527472527474
13	DecisionTreeClassifier	f1	gini	0.7272727272727274
13	DecisionTreeClassifier	f1	entropy	0.7634408602150536
13	DecisionTreeClassifier	f1	gini	0.7118644067796611
13	DecisionTreeClassifier	f1	entropy	0.7431693989071038
14	DecisionTreeClassifier	f1	gini	0.7526881720430108
14	DecisionTreeClassifier	f1	entropy	0.7741935483870968
14	DecisionTreeClassifier	f1	gini	0.7741935483870968
14	DecisionTreeClassifier	f1	entropy	0.7282608695652175
14	DecisionTreeClassifier	f1	gini	0.7472527472527474
14	DecisionTreeClassifier	f1	entropy	0.7659574468085107
14	DecisionTreeClassifier	f1	gini	0.7593582887700534
14	DecisionTreeClassifier	f1	entropy	0.7593582887700534
15	DecisionTreeClassifier	f1	gini	0.7540983606557377
15	DecisionTreeClassifier	f1	entropy	0.7624309392265195
15	DecisionTreeClassifier	f1	gini	0.7486033519553073
15	DecisionTreeClassifier	f1	entropy	0.7444444444444445
15	DecisionTreeClassifier	f1	gini	0.7444444444444445
15	DecisionTreeClassifier	f1	entropy	0.7582417582417582
15	DecisionTreeClassifier	f1	gini	0.7415730337078652
15	DecisionTreeClassifier	f1	entropy	0.7650273224043715
16	DecisionTreeClassifier	f1	gini	0.8358208955223881
16	DecisionTreeClassifier	f1	entropy	0.8041237113402062
16	DecisionTreeClassifier	f1	gini	0.806122448979592
16	DecisionTreeClassifier	f1	entropy	0.7979274611398963

16	DecisionTreeClassifier	f1	gini	0.8181818181818181
16	DecisionTreeClassifier	f1	entropy	0.8144329896907218
16	DecisionTreeClassifier	f1	gini	0.8140703517587939
16	DecisionTreeClassifier	f1	entropy	0.7938144329896908
17	DecisionTreeClassifier	f1	gini	0.75
17	DecisionTreeClassifier	f1	entropy	0.7407407407407407
17	DecisionTreeClassifier	f1	gini	0.745945945945946
17	DecisionTreeClassifier	f1	entropy	0.7659574468085105
17	DecisionTreeClassifier	f1	gini	0.7593582887700534
17	DecisionTreeClassifier	f1	entropy	0.7446808510638298
17	DecisionTreeClassifier	f1	gini	0.7407407407407407
17	DecisionTreeClassifier	f1	entropy	0.7608695652173912
18	DecisionTreeClassifier	f1	gini	0.7675675675675675
18	DecisionTreeClassifier	f1	entropy	0.8064516129032258
18	DecisionTreeClassifier	f1	gini	0.7634408602150536
18	DecisionTreeClassifier	f1	entropy	0.7934782608695653
18	DecisionTreeClassifier	f1	gini	0.7807486631016043
18	DecisionTreeClassifier	f1	entropy	0.8
18	DecisionTreeClassifier	f1	gini	0.7675675675675675
18	DecisionTreeClassifier	f1	entropy	0.7709497206703911
19	DecisionTreeClassifier	f1	gini	0.75
19	DecisionTreeClassifier	f1	entropy	0.7362637362637361
19	DecisionTreeClassifier	f1	gini	0.7675675675675675
19	DecisionTreeClassifier	f1	entropy	0.7403314917127072
19	DecisionTreeClassifier	f1	gini	0.7650273224043715
19	DecisionTreeClassifier	f1	entropy	0.6936416184971099
19	DecisionTreeClassifier	f1	gini	0.7826086956521738
19	DecisionTreeClassifier	f1	entropy	0.7344632768361582
20	DecisionTreeClassifier	f1	gini	0.7513812154696133
20	DecisionTreeClassifier	f1	entropy	0.7853403141361257
20	DecisionTreeClassifier	f1	gini	0.7659574468085107
20	DecisionTreeClassifier	f1	entropy	0.806282722513089
20	DecisionTreeClassifier	f1	gini	0.7608695652173912
20	DecisionTreeClassifier	f1	entropy	0.7668393782383419
20	DecisionTreeClassifier	f1	gini	0.7567567567567567
20	DecisionTreeClassifier	f1	entropy	0.7807486631016043
21	DecisionTreeClassifier	f1	gini	0.7473684210526316
21	DecisionTreeClassifier	f1	entropy	0.7555555555555555
21	DecisionTreeClassifier	f1	gini	0.7578947368421053
21	DecisionTreeClassifier	f1	entropy	0.7403314917127071
21	DecisionTreeClassifier	f1	gini	0.7368421052631579
21	DecisionTreeClassifier	f1	entropy	0.7570621468926554
21	DecisionTreeClassifier	f1	gini	0.7553191489361702

21	DecisionTreeClassifier	f1	entropy	0.7528089887640449
22	DecisionTreeClassifier	f1	gini	0.783068783068783
22	DecisionTreeClassifier	f1	entropy	0.7872340425531915
22	DecisionTreeClassifier	f1	gini	0.8148148148148148
22	DecisionTreeClassifier	f1	entropy	0.7849462365591399
22	DecisionTreeClassifier	f1	gini	0.7936507936507936
22	DecisionTreeClassifier	f1	entropy	0.7872340425531915
22	DecisionTreeClassifier	f1	gini	0.7783783783783782
22	DecisionTreeClassifier	f1	entropy	0.8247422680412372
23	DecisionTreeClassifier	f1	gini	0.7675675675675675
23	DecisionTreeClassifier	f1	entropy	0.7282608695652175
23	DecisionTreeClassifier	f1	gini	0.7634408602150536
23	DecisionTreeClassifier	f1	entropy	0.7553191489361704
23	DecisionTreeClassifier	f1	gini	0.7634408602150536
23	DecisionTreeClassifier	f1	entropy	0.7513227513227514
23	DecisionTreeClassifier	f1	gini	0.7650273224043715
23	DecisionTreeClassifier	f1	entropy	0.7282608695652175
24	DecisionTreeClassifier	f1	gini	0.735632183908046
24	DecisionTreeClassifier	f1	entropy	0.7441860465116278
24	DecisionTreeClassifier	f1	gini	0.7542857142857143
24	DecisionTreeClassifier	f1	entropy	0.7386363636363636
24	DecisionTreeClassifier	f1	gini	0.7500000000000001
24	DecisionTreeClassifier	f1	entropy	0.7471264367816093
24	DecisionTreeClassifier	f1	gini	0.7428571428571429
24	DecisionTreeClassifier	f1	entropy	0.7457627118644068
25	DecisionTreeClassifier	f1	gini	0.7783783783783783
25	DecisionTreeClassifier	f1	entropy	0.8181818181818182
25	DecisionTreeClassifier	f1	gini	0.8105263157894737
25	DecisionTreeClassifier	f1	entropy	0.7959183673469389
25	DecisionTreeClassifier	f1	gini	0.7956989247311826
25	DecisionTreeClassifier	f1	entropy	0.8181818181818182
25	DecisionTreeClassifier	f1	gini	0.8210526315789475
25	DecisionTreeClassifier	f1	entropy	0.8041237113402062

Table 38: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.7164179104477612
1	RandomForestClassifier	accuracy	5	0.753731343283582
1	RandomForestClassifier	accuracy	5	0.6492537313432836
1	RandomForestClassifier	accuracy	5	0.746268656716418

1	RandomForestClassifier	accuracy	50	0.746268656716418
1	RandomForestClassifier	accuracy	50	0.7761194029850746
1	RandomForestClassifier	accuracy	50	0.7611940298507462
1	RandomForestClassifier	accuracy	50	0.7686567164179104
2	RandomForestClassifier	accuracy	5	0.6842105263157895
2	RandomForestClassifier	accuracy	5	0.6842105263157895
2	RandomForestClassifier	accuracy	5	0.6917293233082706
2	RandomForestClassifier	accuracy	5	0.7593984962406015
2	RandomForestClassifier	accuracy	50	0.7443609022556391
2	RandomForestClassifier	accuracy	50	0.6992481203007519
2	RandomForestClassifier	accuracy	50	0.7443609022556391
2	RandomForestClassifier	accuracy	50	0.7293233082706767
3	RandomForestClassifier	accuracy	5	0.6766917293233082
3	RandomForestClassifier	accuracy	5	0.6691729323308271
3	RandomForestClassifier	accuracy	5	0.7293233082706767
3	RandomForestClassifier	accuracy	5	0.7293233082706767
3	RandomForestClassifier	accuracy	50	0.7518796992481203
3	RandomForestClassifier	accuracy	50	0.7744360902255639
3	RandomForestClassifier	accuracy	50	0.7744360902255639
3	RandomForestClassifier	accuracy	50	0.7293233082706767
4	RandomForestClassifier	accuracy	5	0.6165413533834586
4	RandomForestClassifier	accuracy	5	0.7218045112781954
4	RandomForestClassifier	accuracy	5	0.6691729323308271
4	RandomForestClassifier	accuracy	5	0.7669172932330827
4	RandomForestClassifier	accuracy	50	0.7819548872180451
4	RandomForestClassifier	accuracy	50	0.7669172932330827
4	RandomForestClassifier	accuracy	50	0.7518796992481203
4	RandomForestClassifier	accuracy	50	0.7218045112781954
5	RandomForestClassifier	accuracy	5	0.6842105263157895
5	RandomForestClassifier	accuracy	5	0.6992481203007519
5	RandomForestClassifier	accuracy	5	0.706766917293233
5	RandomForestClassifier	accuracy	5	0.706766917293233
5	RandomForestClassifier	accuracy	50	0.7518796992481203
5	RandomForestClassifier	accuracy	50	0.7744360902255639
5	RandomForestClassifier	accuracy	50	0.706766917293233
5	RandomForestClassifier	accuracy	50	0.7443609022556391
6	RandomForestClassifier	accuracy	5	0.7238805970149254
6	RandomForestClassifier	accuracy	5	0.7238805970149254
6	RandomForestClassifier	accuracy	5	0.6940298507462687
6	RandomForestClassifier	accuracy	5	0.6865671641791045
6	RandomForestClassifier	accuracy	50	0.7388059701492538
6	RandomForestClassifier	accuracy	50	0.7014925373134329
6	RandomForestClassifier	accuracy	50	0.7388059701492538

6	RandomForestClassifier	accuracy	50	0.7089552238805971
7	RandomForestClassifier	accuracy	5	0.706766917293233
7	RandomForestClassifier	accuracy	5	0.6691729323308271
7	RandomForestClassifier	accuracy	5	0.706766917293233
7	RandomForestClassifier	accuracy	5	0.631578947368421
7	RandomForestClassifier	accuracy	50	0.706766917293233
7	RandomForestClassifier	accuracy	50	0.6842105263157895
7	RandomForestClassifier	accuracy	50	0.7142857142857143
7	RandomForestClassifier	accuracy	50	0.6992481203007519
8	RandomForestClassifier	accuracy	5	0.7443609022556391
8	RandomForestClassifier	accuracy	5	0.706766917293233
8	RandomForestClassifier	accuracy	5	0.6917293233082706
8	RandomForestClassifier	accuracy	5	0.7744360902255639
8	RandomForestClassifier	accuracy	50	0.7669172932330827
8	RandomForestClassifier	accuracy	50	0.7744360902255639
8	RandomForestClassifier	accuracy	50	0.7443609022556391
8	RandomForestClassifier	accuracy	50	0.7744360902255639
9	RandomForestClassifier	accuracy	5	0.7142857142857143
9	RandomForestClassifier	accuracy	5	0.6466165413533834
9	RandomForestClassifier	accuracy	5	0.706766917293233
9	RandomForestClassifier	accuracy	5	0.6917293233082706
9	RandomForestClassifier	accuracy	50	0.7593984962406015
9	RandomForestClassifier	accuracy	50	0.7443609022556391
9	RandomForestClassifier	accuracy	50	0.7368421052631579
9	RandomForestClassifier	accuracy	50	0.7368421052631579
10	RandomForestClassifier	accuracy	5	0.7593984962406015
10	RandomForestClassifier	accuracy	5	0.6917293233082706
10	RandomForestClassifier	accuracy	5	0.7819548872180451
10	RandomForestClassifier	accuracy	5	0.7218045112781954
10	RandomForestClassifier	accuracy	50	0.7744360902255639
10	RandomForestClassifier	accuracy	50	0.7293233082706767
10	RandomForestClassifier	accuracy	50	0.8195488721804511
10	RandomForestClassifier	accuracy	50	0.7819548872180451
11	RandomForestClassifier	accuracy	5	0.7313432835820896
11	RandomForestClassifier	accuracy	5	0.7014925373134329
11	RandomForestClassifier	accuracy	5	0.7089552238805971
11	RandomForestClassifier	accuracy	5	0.7238805970149254
11	RandomForestClassifier	accuracy	50	0.7761194029850746
11	RandomForestClassifier	accuracy	50	0.7388059701492538
11	RandomForestClassifier	accuracy	50	0.7238805970149254
11	RandomForestClassifier	accuracy	50	0.7238805970149254
12	RandomForestClassifier	accuracy	5	0.6616541353383458
12	RandomForestClassifier	accuracy	5	0.6766917293233082

12	RandomForestClassifier	accuracy	5	0.631578947368421
12	RandomForestClassifier	accuracy	5	0.706766917293233
12	RandomForestClassifier	accuracy	50	0.7142857142857143
12	RandomForestClassifier	accuracy	50	0.7218045112781954
12	RandomForestClassifier	accuracy	50	0.7293233082706767
12	RandomForestClassifier	accuracy	50	0.6992481203007519
13	RandomForestClassifier	accuracy	5	0.7218045112781954
13	RandomForestClassifier	accuracy	5	0.6766917293233082
13	RandomForestClassifier	accuracy	5	0.6992481203007519
13	RandomForestClassifier	accuracy	5	0.6766917293233082
13	RandomForestClassifier	accuracy	50	0.7368421052631579
13	RandomForestClassifier	accuracy	50	0.7368421052631579
13	RandomForestClassifier	accuracy	50	0.7443609022556391
13	RandomForestClassifier	accuracy	50	0.7744360902255639
14	RandomForestClassifier	accuracy	5	0.7218045112781954
14	RandomForestClassifier	accuracy	5	0.7218045112781954
14	RandomForestClassifier	accuracy	5	0.7518796992481203
14	RandomForestClassifier	accuracy	5	0.6691729323308271
14	RandomForestClassifier	accuracy	50	0.7593984962406015
14	RandomForestClassifier	accuracy	50	0.7518796992481203
14	RandomForestClassifier	accuracy	50	0.7518796992481203
14	RandomForestClassifier	accuracy	50	0.7518796992481203
15	RandomForestClassifier	accuracy	5	0.706766917293233
15	RandomForestClassifier	accuracy	5	0.7443609022556391
15	RandomForestClassifier	accuracy	5	0.7142857142857143
15	RandomForestClassifier	accuracy	5	0.7593984962406015
15	RandomForestClassifier	accuracy	50	0.7669172932330827
15	RandomForestClassifier	accuracy	50	0.7744360902255639
15	RandomForestClassifier	accuracy	50	0.7593984962406015
15	RandomForestClassifier	accuracy	50	0.8045112781954887
16	RandomForestClassifier	accuracy	5	0.6194029850746269
16	RandomForestClassifier	accuracy	5	0.6940298507462687
16	RandomForestClassifier	accuracy	5	0.6940298507462687
16	RandomForestClassifier	accuracy	5	0.6716417910447762
16	RandomForestClassifier	accuracy	50	0.7238805970149254
16	RandomForestClassifier	accuracy	50	0.6940298507462687
16	RandomForestClassifier	accuracy	50	0.7313432835820896
16	RandomForestClassifier	accuracy	50	0.7164179104477612
17	RandomForestClassifier	accuracy	5	0.7293233082706767
17	RandomForestClassifier	accuracy	5	0.7293233082706767
17	RandomForestClassifier	accuracy	5	0.7218045112781954
17	RandomForestClassifier	accuracy	5	0.7593984962406015
17	RandomForestClassifier	accuracy	50	0.7669172932330827

17	RandomForestClassifier	accuracy	50	0.7969924812030075
17	RandomForestClassifier	accuracy	50	0.7819548872180451
17	RandomForestClassifier	accuracy	50	0.7894736842105263
18	RandomForestClassifier	accuracy	5	0.6541353383458647
18	RandomForestClassifier	accuracy	5	0.6766917293233082
18	RandomForestClassifier	accuracy	5	0.7368421052631579
18	RandomForestClassifier	accuracy	5	0.6616541353383458
18	RandomForestClassifier	accuracy	50	0.7593984962406015
18	RandomForestClassifier	accuracy	50	0.7368421052631579
18	RandomForestClassifier	accuracy	50	0.7443609022556391
18	RandomForestClassifier	accuracy	50	0.7443609022556391
19	RandomForestClassifier	accuracy	5	0.7142857142857143
19	RandomForestClassifier	accuracy	5	0.7218045112781954
19	RandomForestClassifier	accuracy	5	0.6842105263157895
19	RandomForestClassifier	accuracy	5	0.7669172932330827
19	RandomForestClassifier	accuracy	50	0.7293233082706767
19	RandomForestClassifier	accuracy	50	0.7819548872180451
19	RandomForestClassifier	accuracy	50	0.7368421052631579
19	RandomForestClassifier	accuracy	50	0.7293233082706767
20	RandomForestClassifier	accuracy	5	0.6917293233082706
20	RandomForestClassifier	accuracy	5	0.7368421052631579
20	RandomForestClassifier	accuracy	5	0.706766917293233
20	RandomForestClassifier	accuracy	5	0.6917293233082706
20	RandomForestClassifier	accuracy	50	0.7293233082706767
20	RandomForestClassifier	accuracy	50	0.7443609022556391
20	RandomForestClassifier	accuracy	50	0.7293233082706767
20	RandomForestClassifier	accuracy	50	0.7142857142857143
21	RandomForestClassifier	accuracy	5	0.664179104477612
21	RandomForestClassifier	accuracy	5	0.6791044776119403
21	RandomForestClassifier	accuracy	5	0.7164179104477612
21	RandomForestClassifier	accuracy	5	0.7089552238805971
21	RandomForestClassifier	accuracy	50	0.746268656716418
21	RandomForestClassifier	accuracy	50	0.7313432835820896
21	RandomForestClassifier	accuracy	50	0.7238805970149254
21	RandomForestClassifier	accuracy	50	0.7164179104477612
22	RandomForestClassifier	accuracy	5	0.6842105263157895
22	RandomForestClassifier	accuracy	5	0.7142857142857143
22	RandomForestClassifier	accuracy	5	0.7142857142857143
22	RandomForestClassifier	accuracy	5	0.6992481203007519
22	RandomForestClassifier	accuracy	50	0.7894736842105263
22	RandomForestClassifier	accuracy	50	0.7969924812030075
22	RandomForestClassifier	accuracy	50	0.7669172932330827
22	RandomForestClassifier	accuracy	50	0.7593984962406015

23	RandomForestClassifier	accuracy	5	0.7218045112781954
23	RandomForestClassifier	accuracy	5	0.7142857142857143
23	RandomForestClassifier	accuracy	5	0.7218045112781954
23	RandomForestClassifier	accuracy	5	0.6917293233082706
23	RandomForestClassifier	accuracy	50	0.7142857142857143
23	RandomForestClassifier	accuracy	50	0.7593984962406015
23	RandomForestClassifier	accuracy	50	0.7293233082706767
23	RandomForestClassifier	accuracy	50	0.7218045112781954
24	RandomForestClassifier	accuracy	5	0.7142857142857143
24	RandomForestClassifier	accuracy	5	0.7218045112781954
24	RandomForestClassifier	accuracy	5	0.7518796992481203
24	RandomForestClassifier	accuracy	5	0.7368421052631579
24	RandomForestClassifier	accuracy	50	0.7293233082706767
24	RandomForestClassifier	accuracy	50	0.7669172932330827
24	RandomForestClassifier	accuracy	50	0.7368421052631579
24	RandomForestClassifier	accuracy	50	0.7368421052631579
25	RandomForestClassifier	accuracy	5	0.6992481203007519
25	RandomForestClassifier	accuracy	5	0.7218045112781954
25	RandomForestClassifier	accuracy	5	0.6917293233082706
25	RandomForestClassifier	accuracy	5	0.6090225563909775
25	RandomForestClassifier	accuracy	50	0.7142857142857143
25	RandomForestClassifier	accuracy	50	0.6842105263157895
25	RandomForestClassifier	accuracy	50	0.7142857142857143
25	RandomForestClassifier	accuracy	50	0.6691729323308271
1	RandomForestClassifier	f1	5	0.7999999999999999
1	RandomForestClassifier	f1	5	0.83248730964467
1	RandomForestClassifier	f1	5	0.7614213197969544
1	RandomForestClassifier	f1	5	0.8380952380952381
1	RandomForestClassifier	f1	50	0.8333333333333334
1	RandomForestClassifier	f1	50	0.8529411764705882
1	RandomForestClassifier	f1	50	0.8400000000000001
1	RandomForestClassifier	f1	50	0.848780487804878
2	RandomForestClassifier	f1	5	0.7920792079207921
2	RandomForestClassifier	f1	5	0.7789473684210526
2	RandomForestClassifier	f1	5	0.7897435897435897
2	RandomForestClassifier	f1	5	0.8350515463917527
2	RandomForestClassifier	f1	50	0.8282828282828283
2	RandomForestClassifier	f1	50	0.7999999999999999
2	RandomForestClassifier	f1	50	0.826530612244898
2	RandomForestClassifier	f1	50	0.823529411764706
3	RandomForestClassifier	f1	5	0.7839195979899497
3	RandomForestClassifier	f1	5	0.7755102040816327
3	RandomForestClassifier	f1	5	0.8181818181818182

3	RandomForestClassifier	f1	5	0.8144329896907216
3	RandomForestClassifier	f1	50	0.8421052631578947
3	RandomForestClassifier	f1	50	0.8584905660377358
3	RandomForestClassifier	f1	50	0.8557692307692307
3	RandomForestClassifier	f1	50	0.826923076923077
4	RandomForestClassifier	f1	5	0.7487684729064039
4	RandomForestClassifier	f1	5	0.8159203980099504
4	RandomForestClassifier	f1	5	0.78
4	RandomForestClassifier	f1	5	0.8472906403940887
4	RandomForestClassifier	f1	50	0.8571428571428572
4	RandomForestClassifier	f1	50	0.848780487804878
4	RandomForestClassifier	f1	50	0.8421052631578947
4	RandomForestClassifier	f1	50	0.8229665071770336
5	RandomForestClassifier	f1	5	0.7941176470588235
5	RandomForestClassifier	f1	5	0.7916666666666666
5	RandomForestClassifier	f1	5	0.7979274611398963
5	RandomForestClassifier	f1	5	0.8020304568527918
5	RandomForestClassifier	f1	50	0.835820895522388
5	RandomForestClassifier	f1	50	0.8514851485148515
5	RandomForestClassifier	f1	50	0.8059701492537312
5	RandomForestClassifier	f1	50	0.83
6	RandomForestClassifier	f1	5	0.8102564102564104
6	RandomForestClassifier	f1	5	0.8042328042328043
6	RandomForestClassifier	f1	5	0.8019323671497585
6	RandomForestClassifier	f1	5	0.787878787878788
6	RandomForestClassifier	f1	50	0.8325358851674641
6	RandomForestClassifier	f1	50	0.8019801980198019
6	RandomForestClassifier	f1	50	0.8309178743961352
6	RandomForestClassifier	f1	50	0.8097560975609756
7	RandomForestClassifier	f1	5	0.7958115183246073
7	RandomForestClassifier	f1	5	0.7708333333333333
7	RandomForestClassifier	f1	5	0.8040201005025127
7	RandomForestClassifier	f1	5	0.7407407407407406
7	RandomForestClassifier	f1	50	0.8020304568527918
7	RandomForestClassifier	f1	50	0.79
7	RandomForestClassifier	f1	50	0.8061224489795918
7	RandomForestClassifier	f1	50	0.7959183673469389
8	RandomForestClassifier	f1	5	0.8316831683168318
8	RandomForestClassifier	f1	5	0.8078817733990148
8	RandomForestClassifier	f1	5	0.8038277511961723
8	RandomForestClassifier	f1	5	0.8500000000000001
8	RandomForestClassifier	f1	50	0.8530805687203792
8	RandomForestClassifier	f1	50	0.8571428571428572

8	RandomForestClassifier	f1	50	0.838095238095238
8	RandomForestClassifier	f1	50	0.8557692307692307
9	RandomForestClassifier	f1	5	0.8061224489795918
9	RandomForestClassifier	f1	5	0.7513227513227514
9	RandomForestClassifier	f1	5	0.7999999999999999
9	RandomForestClassifier	f1	5	0.7830687830687831
9	RandomForestClassifier	f1	50	0.8431372549019608
9	RandomForestClassifier	f1	50	0.8333333333333334
9	RandomForestClassifier	f1	50	0.8275862068965516
9	RandomForestClassifier	f1	50	0.8292682926829268
10	RandomForestClassifier	f1	5	0.8260869565217392
10	RandomForestClassifier	f1	5	0.7875647668393783
10	RandomForestClassifier	f1	5	0.8542713567839196
10	RandomForestClassifier	f1	5	0.8021390374331551
10	RandomForestClassifier	f1	50	0.8500000000000001
10	RandomForestClassifier	f1	50	0.8144329896907216
10	RandomForestClassifier	f1	50	0.88
10	RandomForestClassifier	f1	50	0.8571428571428572
11	RandomForestClassifier	f1	5	0.8217821782178217
11	RandomForestClassifier	f1	5	0.8
11	RandomForestClassifier	f1	5	0.8020304568527918
11	RandomForestClassifier	f1	5	0.8140703517587939
11	RandomForestClassifier	f1	50	0.8571428571428572
11	RandomForestClassifier	f1	50	0.8309178743961352
11	RandomForestClassifier	f1	50	0.8229665071770335
11	RandomForestClassifier	f1	50	0.8212560386473429
12	RandomForestClassifier	f1	5	0.7643979057591623
12	RandomForestClassifier	f1	5	0.7724867724867724
12	RandomForestClassifier	f1	5	0.7487179487179487
12	RandomForestClassifier	f1	5	0.7979274611398963
12	RandomForestClassifier	f1	50	0.8080808080808081
12	RandomForestClassifier	f1	50	0.8159203980099504
12	RandomForestClassifier	f1	50	0.8163265306122449
12	RandomForestClassifier	f1	50	0.7959183673469389
13	RandomForestClassifier	f1	5	0.8121827411167513
13	RandomForestClassifier	f1	5	0.7724867724867724
13	RandomForestClassifier	f1	5	0.7894736842105262
13	RandomForestClassifier	f1	5	0.7839195979899497
13	RandomForestClassifier	f1	50	0.832535885167464
13	RandomForestClassifier	f1	50	0.8309178743961353
13	RandomForestClassifier	f1	50	0.8333333333333334
13	RandomForestClassifier	f1	50	0.8529411764705881
14	RandomForestClassifier	f1	5	0.8102564102564103

14	RandomForestClassifier	f1	5	0.806282722513089
14	RandomForestClassifier	f1	5	0.8341708542713568
14	RandomForestClassifier	f1	5	0.7821782178217822
14	RandomForestClassifier	f1	50	0.8415841584158414
14	RandomForestClassifier	f1	50	0.8374384236453202
14	RandomForestClassifier	f1	50	0.8374384236453202
14	RandomForestClassifier	f1	50	0.8390243902439024
15	RandomForestClassifier	f1	5	0.8020304568527918
15	RandomForestClassifier	f1	5	0.8247422680412373
15	RandomForestClassifier	f1	5	0.7978723404255319
15	RandomForestClassifier	f1	5	0.836734693877551
15	RandomForestClassifier	f1	50	0.848780487804878
15	RandomForestClassifier	f1	50	0.8514851485148515
15	RandomForestClassifier	f1	50	0.8431372549019608
15	RandomForestClassifier	f1	50	0.8699999999999999
16	RandomForestClassifier	f1	5	0.753623188405797
16	RandomForestClassifier	f1	5	0.7960199004975125
16	RandomForestClassifier	f1	5	0.7897435897435897
16	RandomForestClassifier	f1	5	0.7708333333333333
16	RandomForestClassifier	f1	50	0.8195121951219513
16	RandomForestClassifier	f1	50	0.7980295566502462
16	RandomForestClassifier	f1	50	0.8217821782178217
16	RandomForestClassifier	f1	50	0.8207547169811321
17	RandomForestClassifier	f1	5	0.8181818181818182
17	RandomForestClassifier	f1	5	0.8144329896907216
17	RandomForestClassifier	f1	5	0.806282722513089
17	RandomForestClassifier	f1	5	0.8350515463917527
17	RandomForestClassifier	f1	50	0.8502415458937198
17	RandomForestClassifier	f1	50	0.8695652173913043
17	RandomForestClassifier	f1	50	0.8625592417061612
17	RandomForestClassifier	f1	50	0.8653846153846155
18	RandomForestClassifier	f1	5	0.7653061224489796
18	RandomForestClassifier	f1	5	0.7748691099476439
18	RandomForestClassifier	f1	5	0.8167539267015708
18	RandomForestClassifier	f1	5	0.7643979057591623
18	RandomForestClassifier	f1	50	0.8431372549019608
18	RandomForestClassifier	f1	50	0.8258706467661692
18	RandomForestClassifier	f1	50	0.8316831683168318
18	RandomForestClassifier	f1	50	0.8316831683168318
19	RandomForestClassifier	f1	5	0.8041237113402062
19	RandomForestClassifier	f1	5	0.8140703517587939
19	RandomForestClassifier	f1	5	0.79
19	RandomForestClassifier	f1	5	0.8457711442786069

19	RandomForestClassifier	f1	50	0.8217821782178217
19	RandomForestClassifier	f1	50	0.8571428571428572
19	RandomForestClassifier	f1	50	0.8241206030150753
19	RandomForestClassifier	f1	50	0.8217821782178217
20	RandomForestClassifier	f1	5	0.7939698492462313
20	RandomForestClassifier	f1	5	0.8258706467661692
20	RandomForestClassifier	f1	5	0.8059701492537312
20	RandomForestClassifier	f1	5	0.7897435897435897
20	RandomForestClassifier	f1	50	0.826923076923077
20	RandomForestClassifier	f1	50	0.8316831683168318
20	RandomForestClassifier	f1	50	0.8217821782178217
20	RandomForestClassifier	f1	50	0.8118811881188119
21	RandomForestClassifier	f1	5	0.7715736040609138
21	RandomForestClassifier	f1	5	0.7860696517412935
21	RandomForestClassifier	f1	5	0.8118811881188118
21	RandomForestClassifier	f1	5	0.8078817733990149
21	RandomForestClassifier	f1	50	0.8380952380952381
21	RandomForestClassifier	f1	50	0.8269230769230769
21	RandomForestClassifier	f1	50	0.8212560386473429
21	RandomForestClassifier	f1	50	0.8155339805825244
22	RandomForestClassifier	f1	5	0.7835051546391754
22	RandomForestClassifier	f1	5	0.8
22	RandomForestClassifier	f1	5	0.81
22	RandomForestClassifier	f1	5	0.8076923076923077
22	RandomForestClassifier	f1	50	0.8571428571428571
22	RandomForestClassifier	f1	50	0.8656716417910448
22	RandomForestClassifier	f1	50	0.8502415458937198
22	RandomForestClassifier	f1	50	0.8431372549019608
23	RandomForestClassifier	f1	5	0.8140703517587939
23	RandomForestClassifier	f1	5	0.8061224489795918
23	RandomForestClassifier	f1	5	0.8140703517587939
23	RandomForestClassifier	f1	5	0.7980295566502462
23	RandomForestClassifier	f1	50	0.8155339805825244
23	RandomForestClassifier	f1	50	0.84
23	RandomForestClassifier	f1	50	0.8217821782178217
23	RandomForestClassifier	f1	50	0.8195121951219512
24	RandomForestClassifier	f1	5	0.8118811881188119
24	RandomForestClassifier	f1	5	0.8140703517587939
24	RandomForestClassifier	f1	5	0.835820895522388
24	RandomForestClassifier	f1	5	0.8241206030150753
24	RandomForestClassifier	f1	50	0.823529411764706
24	RandomForestClassifier	f1	50	0.8457711442786069
24	RandomForestClassifier	f1	50	0.8341232227488151

24	RandomForestClassifier	f1	50	0.832535885167464
25	RandomForestClassifier	f1	5	0.7916666666666666
25	RandomForestClassifier	f1	5	0.8121827411167513
25	RandomForestClassifier	f1	5	0.7897435897435897
25	RandomForestClassifier	f1	5	0.7234042553191489
25	RandomForestClassifier	f1	50	0.8118811881188119
25	RandomForestClassifier	f1	50	0.7920792079207921
25	RandomForestClassifier	f1	50	0.81
25	RandomForestClassifier	f1	50	0.78

Table 39: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.746268656716418
1	SVC	accuracy	linear	0.746268656716418
1	SVC	accuracy	rbf	0.7686567164179104
1	SVC	accuracy	rbf	0.7686567164179104
1	SVC	accuracy	linear	0.746268656716418
1	SVC	accuracy	linear	0.746268656716418
1	SVC	accuracy	rbf	0.7686567164179104
1	SVC	accuracy	rbf	0.7686567164179104
2	SVC	accuracy	linear	0.8045112781954887
2	SVC	accuracy	linear	0.8045112781954887
2	SVC	accuracy	rbf	0.7368421052631579
2	SVC	accuracy	rbf	0.7368421052631579
2	SVC	accuracy	linear	0.8045112781954887
2	SVC	accuracy	linear	0.8045112781954887
2	SVC	accuracy	rbf	0.7368421052631579
2	SVC	accuracy	rbf	0.7368421052631579
3	SVC	accuracy	linear	0.7368421052631579
3	SVC	accuracy	linear	0.7368421052631579
3	SVC	accuracy	rbf	0.7443609022556391
3	SVC	accuracy	rbf	0.7443609022556391
3	SVC	accuracy	linear	0.7368421052631579
3	SVC	accuracy	linear	0.7368421052631579
3	SVC	accuracy	rbf	0.7443609022556391
3	SVC	accuracy	rbf	0.7443609022556391
4	SVC	accuracy	linear	0.7518796992481203
4	SVC	accuracy	linear	0.7518796992481203
4	SVC	accuracy	rbf	0.7368421052631579
4	SVC	accuracy	rbf	0.7368421052631579

4	SVC	accuracy	linear	0.7518796992481203
4	SVC	accuracy	linear	0.7518796992481203
4	SVC	accuracy	rbf	0.7368421052631579
4	SVC	accuracy	rbf	0.7368421052631579
5	SVC	accuracy	linear	0.706766917293233
5	SVC	accuracy	linear	0.706766917293233
5	SVC	accuracy	rbf	0.7368421052631579
5	SVC	accuracy	rbf	0.7368421052631579
5	SVC	accuracy	linear	0.706766917293233
5	SVC	accuracy	linear	0.706766917293233
5	SVC	accuracy	rbf	0.7368421052631579
5	SVC	accuracy	rbf	0.7368421052631579
6	SVC	accuracy	linear	0.7089552238805971
6	SVC	accuracy	linear	0.7089552238805971
6	SVC	accuracy	rbf	0.6940298507462687
6	SVC	accuracy	rbf	0.6940298507462687
6	SVC	accuracy	linear	0.7089552238805971
6	SVC	accuracy	linear	0.7089552238805971
6	SVC	accuracy	rbf	0.6940298507462687
6	SVC	accuracy	rbf	0.6940298507462687
7	SVC	accuracy	linear	0.6691729323308271
7	SVC	accuracy	linear	0.6691729323308271
7	SVC	accuracy	rbf	0.7142857142857143
7	SVC	accuracy	rbf	0.7142857142857143
7	SVC	accuracy	linear	0.6691729323308271
7	SVC	accuracy	linear	0.6691729323308271
7	SVC	accuracy	rbf	0.7142857142857143
7	SVC	accuracy	rbf	0.7142857142857143
8	SVC	accuracy	linear	0.7593984962406015
8	SVC	accuracy	linear	0.7593984962406015
8	SVC	accuracy	rbf	0.7894736842105263
8	SVC	accuracy	rbf	0.7894736842105263
8	SVC	accuracy	linear	0.7593984962406015
8	SVC	accuracy	linear	0.7593984962406015
8	SVC	accuracy	rbf	0.7894736842105263
8	SVC	accuracy	rbf	0.7894736842105263
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	rbf	0.7518796992481203
9	SVC	accuracy	rbf	0.7518796992481203
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	linear	0.7368421052631579
9	SVC	accuracy	rbf	0.7518796992481203

9	SVC	accuracy	rbf	0.7518796992481203
10	SVC	accuracy	linear	0.7518796992481203
10	SVC	accuracy	linear	0.7518796992481203
10	SVC	accuracy	rbf	0.7744360902255639
10	SVC	accuracy	rbf	0.7744360902255639
10	SVC	accuracy	linear	0.7518796992481203
10	SVC	accuracy	linear	0.7518796992481203
10	SVC	accuracy	rbf	0.7744360902255639
10	SVC	accuracy	rbf	0.7744360902255639
11	SVC	accuracy	linear	0.746268656716418
11	SVC	accuracy	linear	0.746268656716418
11	SVC	accuracy	rbf	0.746268656716418
11	SVC	accuracy	rbf	0.746268656716418
11	SVC	accuracy	linear	0.746268656716418
11	SVC	accuracy	linear	0.746268656716418
11	SVC	accuracy	rbf	0.746268656716418
11	SVC	accuracy	rbf	0.746268656716418
12	SVC	accuracy	linear	0.7368421052631579
12	SVC	accuracy	linear	0.7368421052631579
12	SVC	accuracy	rbf	0.7593984962406015
12	SVC	accuracy	rbf	0.7593984962406015
12	SVC	accuracy	linear	0.7368421052631579
12	SVC	accuracy	linear	0.7368421052631579
12	SVC	accuracy	rbf	0.7593984962406015
12	SVC	accuracy	rbf	0.7593984962406015
13	SVC	accuracy	linear	0.7669172932330827
13	SVC	accuracy	linear	0.7669172932330827
13	SVC	accuracy	rbf	0.7744360902255639
13	SVC	accuracy	rbf	0.7744360902255639
13	SVC	accuracy	linear	0.7669172932330827
13	SVC	accuracy	linear	0.7669172932330827
13	SVC	accuracy	rbf	0.7744360902255639
13	SVC	accuracy	rbf	0.7744360902255639
14	SVC	accuracy	linear	0.6691729323308271
14	SVC	accuracy	linear	0.6691729323308271
14	SVC	accuracy	rbf	0.7218045112781954
14	SVC	accuracy	rbf	0.7218045112781954
14	SVC	accuracy	linear	0.6691729323308271
14	SVC	accuracy	linear	0.6691729323308271
14	SVC	accuracy	rbf	0.7218045112781954
14	SVC	accuracy	rbf	0.7218045112781954
15	SVC	accuracy	linear	0.7593984962406015
15	SVC	accuracy	linear	0.7593984962406015

15	SVC	accuracy	rbf	0.7744360902255639
15	SVC	accuracy	rbf	0.7744360902255639
15	SVC	accuracy	linear	0.7593984962406015
15	SVC	accuracy	linear	0.7593984962406015
15	SVC	accuracy	rbf	0.7744360902255639
15	SVC	accuracy	rbf	0.7744360902255639
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	rbf	0.7238805970149254
16	SVC	accuracy	rbf	0.7238805970149254
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	rbf	0.7238805970149254
16	SVC	accuracy	rbf	0.7238805970149254
17	SVC	accuracy	linear	0.7969924812030075
17	SVC	accuracy	linear	0.7969924812030075
17	SVC	accuracy	rbf	0.7744360902255639
17	SVC	accuracy	rbf	0.7744360902255639
17	SVC	accuracy	linear	0.7969924812030075
17	SVC	accuracy	linear	0.7969924812030075
17	SVC	accuracy	rbf	0.7744360902255639
17	SVC	accuracy	rbf	0.7744360902255639
18	SVC	accuracy	linear	0.7443609022556391
18	SVC	accuracy	linear	0.7443609022556391
18	SVC	accuracy	rbf	0.7593984962406015
18	SVC	accuracy	rbf	0.7593984962406015
18	SVC	accuracy	linear	0.7443609022556391
18	SVC	accuracy	linear	0.7443609022556391
18	SVC	accuracy	rbf	0.7593984962406015
18	SVC	accuracy	rbf	0.7593984962406015
19	SVC	accuracy	linear	0.7293233082706767
19	SVC	accuracy	linear	0.7293233082706767
19	SVC	accuracy	rbf	0.7518796992481203
19	SVC	accuracy	rbf	0.7518796992481203
19	SVC	accuracy	linear	0.7293233082706767
19	SVC	accuracy	linear	0.7293233082706767
19	SVC	accuracy	rbf	0.7518796992481203
19	SVC	accuracy	rbf	0.7518796992481203
20	SVC	accuracy	linear	0.7368421052631579
20	SVC	accuracy	linear	0.7368421052631579
20	SVC	accuracy	rbf	0.7518796992481203
20	SVC	accuracy	rbf	0.7518796992481203
20	SVC	accuracy	linear	0.7368421052631579

20	SVC	accuracy	linear	0.7368421052631579
20	SVC	accuracy	rbf	0.7518796992481203
20	SVC	accuracy	rbf	0.7518796992481203
21	SVC	accuracy	linear	0.7313432835820896
21	SVC	accuracy	linear	0.7313432835820896
21	SVC	accuracy	rbf	0.7388059701492538
21	SVC	accuracy	rbf	0.7388059701492538
21	SVC	accuracy	linear	0.7313432835820896
21	SVC	accuracy	linear	0.7313432835820896
21	SVC	accuracy	rbf	0.7388059701492538
21	SVC	accuracy	rbf	0.7388059701492538
22	SVC	accuracy	linear	0.7669172932330827
22	SVC	accuracy	linear	0.7669172932330827
22	SVC	accuracy	rbf	0.8045112781954887
22	SVC	accuracy	rbf	0.8045112781954887
22	SVC	accuracy	linear	0.7669172932330827
22	SVC	accuracy	linear	0.7669172932330827
22	SVC	accuracy	rbf	0.8045112781954887
22	SVC	accuracy	rbf	0.8045112781954887
23	SVC	accuracy	linear	0.6917293233082706
23	SVC	accuracy	linear	0.6917293233082706
23	SVC	accuracy	rbf	0.7443609022556391
23	SVC	accuracy	rbf	0.7443609022556391
23	SVC	accuracy	linear	0.6917293233082706
23	SVC	accuracy	linear	0.6917293233082706
23	SVC	accuracy	rbf	0.7443609022556391
23	SVC	accuracy	rbf	0.7443609022556391
24	SVC	accuracy	linear	0.7443609022556391
24	SVC	accuracy	linear	0.7443609022556391
24	SVC	accuracy	rbf	0.7443609022556391
24	SVC	accuracy	rbf	0.7443609022556391
24	SVC	accuracy	linear	0.7443609022556391
24	SVC	accuracy	linear	0.7443609022556391
24	SVC	accuracy	rbf	0.7443609022556391
24	SVC	accuracy	rbf	0.7443609022556391
25	SVC	accuracy	linear	0.6917293233082706
25	SVC	accuracy	linear	0.6917293233082706
25	SVC	accuracy	rbf	0.6992481203007519
25	SVC	accuracy	rbf	0.6992481203007519
25	SVC	accuracy	linear	0.6917293233082706
25	SVC	accuracy	linear	0.6917293233082706
25	SVC	accuracy	rbf	0.6992481203007519
25	SVC	accuracy	rbf	0.6992481203007519

1	SVC	f1	linear	0.8282828282828283
1	SVC	f1	linear	0.8282828282828283
1	SVC	f1	rbf	0.8516746411483255
1	SVC	f1	rbf	0.8516746411483255
1	SVC	f1	linear	0.8282828282828283
1	SVC	f1	linear	0.8282828282828283
1	SVC	f1	rbf	0.8516746411483255
1	SVC	f1	rbf	0.8516746411483255
2	SVC	f1	linear	0.8645833333333334
2	SVC	f1	linear	0.8645833333333334
2	SVC	f1	rbf	0.8292682926829268
2	SVC	f1	rbf	0.8292682926829268
2	SVC	f1	linear	0.8645833333333334
2	SVC	f1	linear	0.8645833333333334
2	SVC	f1	rbf	0.8292682926829268
2	SVC	f1	rbf	0.8292682926829268
3	SVC	f1	linear	0.8241206030150753
3	SVC	f1	linear	0.8241206030150753
3	SVC	f1	rbf	0.838095238095238
3	SVC	f1	rbf	0.838095238095238
3	SVC	f1	linear	0.8241206030150753
3	SVC	f1	linear	0.8241206030150753
3	SVC	f1	rbf	0.838095238095238
3	SVC	f1	rbf	0.838095238095238
4	SVC	f1	linear	0.83248730964467
4	SVC	f1	linear	0.83248730964467
4	SVC	f1	rbf	0.8292682926829268
4	SVC	f1	rbf	0.8292682926829268
4	SVC	f1	linear	0.83248730964467
4	SVC	f1	linear	0.83248730964467
4	SVC	f1	rbf	0.8292682926829268
4	SVC	f1	rbf	0.8292682926829268
5	SVC	f1	linear	0.8020304568527918
5	SVC	f1	linear	0.8020304568527918
5	SVC	f1	rbf	0.8309178743961353
5	SVC	f1	rbf	0.8309178743961353
5	SVC	f1	linear	0.8020304568527918
5	SVC	f1	linear	0.8020304568527918
5	SVC	f1	rbf	0.8309178743961353
5	SVC	f1	rbf	0.8309178743961353
6	SVC	f1	linear	0.8020304568527918
6	SVC	f1	linear	0.8020304568527918
6	SVC	f1	rbf	0.8075117370892019

6	SVC	f1	rbf	0.8075117370892019
6	SVC	f1	linear	0.8020304568527918
6	SVC	f1	linear	0.8020304568527918
6	SVC	f1	rbf	0.8075117370892019
6	SVC	f1	rbf	0.8075117370892019
7	SVC	f1	linear	0.7608695652173912
7	SVC	f1	linear	0.7608695652173912
7	SVC	f1	rbf	0.81
7	SVC	f1	rbf	0.81
7	SVC	f1	linear	0.7608695652173912
7	SVC	f1	linear	0.7608695652173912
7	SVC	f1	rbf	0.81
7	SVC	f1	rbf	0.81
8	SVC	f1	linear	0.8446601941747574
8	SVC	f1	linear	0.8446601941747574
8	SVC	f1	rbf	0.8679245283018868
8	SVC	f1	rbf	0.8679245283018868
8	SVC	f1	linear	0.8446601941747574
8	SVC	f1	linear	0.8446601941747574
8	SVC	f1	rbf	0.8679245283018868
8	SVC	f1	rbf	0.8679245283018868
9	SVC	f1	linear	0.8205128205128205
9	SVC	f1	linear	0.8205128205128205
9	SVC	f1	rbf	0.8421052631578947
9	SVC	f1	rbf	0.8421052631578947
9	SVC	f1	linear	0.8205128205128205
9	SVC	f1	linear	0.8205128205128205
9	SVC	f1	rbf	0.8421052631578947
9	SVC	f1	rbf	0.8421052631578947
10	SVC	f1	linear	0.823529411764706
10	SVC	f1	linear	0.823529411764706
10	SVC	f1	rbf	0.8514851485148515
10	SVC	f1	rbf	0.8514851485148515
10	SVC	f1	linear	0.823529411764706
10	SVC	f1	linear	0.823529411764706
10	SVC	f1	rbf	0.8514851485148515
10	SVC	f1	rbf	0.8514851485148515
11	SVC	f1	linear	0.8265306122448979
11	SVC	f1	linear	0.8265306122448979
11	SVC	f1	rbf	0.8380952380952381
11	SVC	f1	rbf	0.8380952380952381
11	SVC	f1	linear	0.8265306122448979
11	SVC	f1	linear	0.8265306122448979

11	SVC	f1	rbf	0.8380952380952381
11	SVC	f1	rbf	0.8380952380952381
12	SVC	f1	linear	0.8167539267015708
12	SVC	f1	linear	0.8167539267015708
12	SVC	f1	rbf	0.8415841584158414
12	SVC	f1	rbf	0.8415841584158414
12	SVC	f1	linear	0.8167539267015708
12	SVC	f1	linear	0.8167539267015708
12	SVC	f1	rbf	0.8415841584158414
12	SVC	f1	rbf	0.8415841584158414
13	SVC	f1	linear	0.8426395939086294
13	SVC	f1	linear	0.8426395939086294
13	SVC	f1	rbf	0.8571428571428572
13	SVC	f1	rbf	0.8571428571428572
13	SVC	f1	linear	0.8426395939086294
13	SVC	f1	linear	0.8426395939086294
13	SVC	f1	rbf	0.8571428571428572
13	SVC	f1	rbf	0.8571428571428572
14	SVC	f1	linear	0.7755102040816327
14	SVC	f1	linear	0.7755102040816327
14	SVC	f1	rbf	0.8177339901477831
14	SVC	f1	rbf	0.8177339901477831
14	SVC	f1	linear	0.7755102040816327
14	SVC	f1	linear	0.7755102040816327
14	SVC	f1	rbf	0.8177339901477831
14	SVC	f1	rbf	0.8177339901477831
15	SVC	f1	linear	0.8333333333333333
15	SVC	f1	linear	0.8333333333333333
15	SVC	f1	rbf	0.8557692307692307
15	SVC	f1	rbf	0.8557692307692307
15	SVC	f1	linear	0.8333333333333333
15	SVC	f1	linear	0.8333333333333333
15	SVC	f1	rbf	0.8557692307692307
15	SVC	f1	rbf	0.8557692307692307
16	SVC	f1	linear	0.7894736842105263
16	SVC	f1	linear	0.7894736842105263
16	SVC	f1	rbf	0.8212560386473429
16	SVC	f1	rbf	0.8212560386473429
16	SVC	f1	linear	0.7894736842105263
16	SVC	f1	linear	0.7894736842105263
16	SVC	f1	rbf	0.8212560386473429
16	SVC	f1	rbf	0.8212560386473429
17	SVC	f1	linear	0.8656716417910448

17	SVC	f1	linear	0.8656716417910448
17	SVC	f1	rbf	0.8571428571428572
17	SVC	f1	rbf	0.8571428571428572
17	SVC	f1	linear	0.8656716417910448
17	SVC	f1	linear	0.8656716417910448
17	SVC	f1	rbf	0.8571428571428572
17	SVC	f1	rbf	0.8571428571428572
18	SVC	f1	linear	0.8247422680412373
18	SVC	f1	linear	0.8247422680412373
18	SVC	f1	rbf	0.8431372549019608
18	SVC	f1	rbf	0.8431372549019608
18	SVC	f1	linear	0.8247422680412373
18	SVC	f1	linear	0.8247422680412373
18	SVC	f1	rbf	0.8431372549019608
18	SVC	f1	rbf	0.8431372549019608
19	SVC	f1	linear	0.8105263157894737
19	SVC	f1	linear	0.8105263157894737
19	SVC	f1	rbf	0.8390243902439024
19	SVC	f1	rbf	0.8390243902439024
19	SVC	f1	linear	0.8105263157894737
19	SVC	f1	linear	0.8105263157894737
19	SVC	f1	rbf	0.8390243902439024
19	SVC	f1	rbf	0.8390243902439024
20	SVC	f1	linear	0.8205128205128205
20	SVC	f1	linear	0.8205128205128205
20	SVC	f1	rbf	0.8421052631578947
20	SVC	f1	rbf	0.8421052631578947
20	SVC	f1	linear	0.8205128205128205
20	SVC	f1	linear	0.8205128205128205
20	SVC	f1	rbf	0.8421052631578947
20	SVC	f1	rbf	0.8421052631578947
21	SVC	f1	linear	0.8163265306122448
21	SVC	f1	linear	0.8163265306122448
21	SVC	f1	rbf	0.8341232227488151
21	SVC	f1	rbf	0.8341232227488151
21	SVC	f1	linear	0.8163265306122448
21	SVC	f1	linear	0.8163265306122448
21	SVC	f1	rbf	0.8341232227488151
21	SVC	f1	rbf	0.8341232227488151
22	SVC	f1	linear	0.837696335078534
22	SVC	f1	linear	0.837696335078534
22	SVC	f1	rbf	0.875
22	SVC	f1	rbf	0.875

22	SVC	f1	linear	0.837696335078534
22	SVC	f1	linear	0.837696335078534
22	SVC	f1	rbf	0.875
22	SVC	f1	rbf	0.875
23	SVC	f1	linear	0.7897435897435897
23	SVC	f1	linear	0.7897435897435897
23	SVC	f1	rbf	0.8349514563106796
23	SVC	f1	rbf	0.8349514563106796
23	SVC	f1	linear	0.7897435897435897
23	SVC	f1	linear	0.7897435897435897
23	SVC	f1	rbf	0.8349514563106796
23	SVC	f1	rbf	0.8349514563106796
24	SVC	f1	linear	0.826530612244898
24	SVC	f1	linear	0.826530612244898
24	SVC	f1	rbf	0.8365384615384615
24	SVC	f1	rbf	0.8365384615384615
24	SVC	f1	linear	0.826530612244898
24	SVC	f1	linear	0.826530612244898
24	SVC	f1	rbf	0.8365384615384615
24	SVC	f1	rbf	0.8365384615384615
25	SVC	f1	linear	0.7918781725888324
25	SVC	f1	linear	0.7918781725888324
25	SVC	f1	rbf	0.8058252427184466
25	SVC	f1	rbf	0.8058252427184466
25	SVC	f1	linear	0.7918781725888324
25	SVC	f1	linear	0.7918781725888324
25	SVC	f1	rbf	0.8058252427184466
25	SVC	f1	rbf	0.8058252427184466

Table 40: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
1	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
1	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
1	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
1	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
1	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
1	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
1	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
2	DecisionTreeClassifier	accuracy	gini	0.6390977443609023

2	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
2	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
2	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
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3	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
3	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
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4	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
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6	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
6	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
6	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
6	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
6	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
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7	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
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9	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
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9	DecisionTreeClassifier	accuracy	gini	0.6090225563909775
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9	DecisionTreeClassifier	accuracy	gini	0.5714285714285714
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18	DecisionTreeClassifier	f1	gini	0.7872340425531914
18	DecisionTreeClassifier	f1	entropy	0.7830687830687831
18	DecisionTreeClassifier	f1	gini	0.7936507936507936
18	DecisionTreeClassifier	f1	entropy	0.7634408602150536
18	DecisionTreeClassifier	f1	gini	0.8
18	DecisionTreeClassifier	f1	entropy	0.7659574468085107
19	DecisionTreeClassifier	f1	gini	0.7783783783783783
19	DecisionTreeClassifier	f1	entropy	0.7500000000000001
19	DecisionTreeClassifier	f1	gini	0.7956989247311826
19	DecisionTreeClassifier	f1	entropy	0.7528089887640449
19	DecisionTreeClassifier	f1	gini	0.8105263157894737
19	DecisionTreeClassifier	f1	entropy	0.7428571428571429
19	DecisionTreeClassifier	f1	gini	0.8
19	DecisionTreeClassifier	f1	entropy	0.7272727272727274
20	DecisionTreeClassifier	f1	gini	0.7894736842105262

20	DecisionTreeClassifier	f1	entropy	0.7692307692307693
20	DecisionTreeClassifier	f1	gini	0.7539267015706805
20	DecisionTreeClassifier	f1	entropy	0.7604166666666667
20	DecisionTreeClassifier	f1	gini	0.7916666666666666
20	DecisionTreeClassifier	f1	entropy	0.7628865979381444
20	DecisionTreeClassifier	f1	gini	0.7708333333333333
20	DecisionTreeClassifier	f1	entropy	0.7897435897435897
21	DecisionTreeClassifier	f1	gini	0.745945945945946
21	DecisionTreeClassifier	f1	entropy	0.7182320441988951
21	DecisionTreeClassifier	f1	gini	0.7322404371584699
21	DecisionTreeClassifier	f1	entropy	0.7473684210526316
21	DecisionTreeClassifier	f1	gini	0.7407407407407407
21	DecisionTreeClassifier	f1	entropy	0.7351351351351353
21	DecisionTreeClassifier	f1	gini	0.7379679144385027
21	DecisionTreeClassifier	f1	entropy	0.7407407407407407
22	DecisionTreeClassifier	f1	gini	0.7065217391304348
22	DecisionTreeClassifier	f1	entropy	0.7717391304347825
22	DecisionTreeClassifier	f1	gini	0.7272727272727273
22	DecisionTreeClassifier	f1	entropy	0.7830687830687831
22	DecisionTreeClassifier	f1	gini	0.7272727272727273
22	DecisionTreeClassifier	f1	entropy	0.7741935483870968
22	DecisionTreeClassifier	f1	gini	0.7243243243243243
22	DecisionTreeClassifier	f1	entropy	0.7783783783783783
23	DecisionTreeClassifier	f1	gini	0.8020833333333334
23	DecisionTreeClassifier	f1	entropy	0.776595744680851
23	DecisionTreeClassifier	f1	gini	0.7741935483870968
23	DecisionTreeClassifier	f1	entropy	0.7608695652173912
23	DecisionTreeClassifier	f1	gini	0.7872340425531914
23	DecisionTreeClassifier	f1	entropy	0.7717391304347825
23	DecisionTreeClassifier	f1	gini	0.7872340425531914
23	DecisionTreeClassifier	f1	entropy	0.768421052631579
24	DecisionTreeClassifier	f1	gini	0.7473684210526316
24	DecisionTreeClassifier	f1	entropy	0.7407407407407406
24	DecisionTreeClassifier	f1	gini	0.7272727272727273
24	DecisionTreeClassifier	f1	entropy	0.7173913043478262
24	DecisionTreeClassifier	f1	gini	0.7567567567567567
24	DecisionTreeClassifier	f1	entropy	0.7741935483870968
24	DecisionTreeClassifier	f1	gini	0.7282608695652175
24	DecisionTreeClassifier	f1	entropy	0.7142857142857143
25	DecisionTreeClassifier	f1	gini	0.7415730337078652
25	DecisionTreeClassifier	f1	entropy	0.7379679144385027
25	DecisionTreeClassifier	f1	gini	0.7444444444444445
25	DecisionTreeClassifier	f1	entropy	0.7802197802197802

25	DecisionTreeClassifier	f1	gini	0.7344632768361582
25	DecisionTreeClassifier	f1	entropy	0.7789473684210526
25	DecisionTreeClassifier	f1	gini	0.7241379310344828
25	DecisionTreeClassifier	f1	entropy	0.7634408602150536

Table 41: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.6492537313432836
1	RandomForestClassifier	accuracy	5	0.6940298507462687
1	RandomForestClassifier	accuracy	5	0.7014925373134329
1	RandomForestClassifier	accuracy	5	0.7014925373134329
1	RandomForestClassifier	accuracy	50	0.7611940298507462
1	RandomForestClassifier	accuracy	50	0.7388059701492538
1	RandomForestClassifier	accuracy	50	0.7313432835820896
1	RandomForestClassifier	accuracy	50	0.7388059701492538
2	RandomForestClassifier	accuracy	5	0.746268656716418
2	RandomForestClassifier	accuracy	5	0.7388059701492538
2	RandomForestClassifier	accuracy	5	0.7089552238805971
2	RandomForestClassifier	accuracy	5	0.7089552238805971
2	RandomForestClassifier	accuracy	50	0.7686567164179104
2	RandomForestClassifier	accuracy	50	0.7910447761194029
2	RandomForestClassifier	accuracy	50	0.7835820895522388
2	RandomForestClassifier	accuracy	50	0.7835820895522388
3	RandomForestClassifier	accuracy	5	0.7744360902255639
3	RandomForestClassifier	accuracy	5	0.6992481203007519
3	RandomForestClassifier	accuracy	5	0.7593984962406015
3	RandomForestClassifier	accuracy	5	0.7218045112781954
3	RandomForestClassifier	accuracy	50	0.7443609022556391
3	RandomForestClassifier	accuracy	50	0.7593984962406015
3	RandomForestClassifier	accuracy	50	0.7368421052631579
3	RandomForestClassifier	accuracy	50	0.7744360902255639
4	RandomForestClassifier	accuracy	5	0.6917293233082706
4	RandomForestClassifier	accuracy	5	0.6917293233082706
4	RandomForestClassifier	accuracy	5	0.7218045112781954
4	RandomForestClassifier	accuracy	5	0.6691729323308271
4	RandomForestClassifier	accuracy	50	0.7443609022556391
4	RandomForestClassifier	accuracy	50	0.7443609022556391
4	RandomForestClassifier	accuracy	50	0.7142857142857143
4	RandomForestClassifier	accuracy	50	0.7293233082706767
5	RandomForestClassifier	accuracy	5	0.6541353383458647

5	RandomForestClassifier	accuracy	5	0.6842105263157895
5	RandomForestClassifier	accuracy	5	0.6992481203007519
5	RandomForestClassifier	accuracy	5	0.6466165413533834
5	RandomForestClassifier	accuracy	50	0.7142857142857143
5	RandomForestClassifier	accuracy	50	0.7368421052631579
5	RandomForestClassifier	accuracy	50	0.6992481203007519
5	RandomForestClassifier	accuracy	50	0.7443609022556391
6	RandomForestClassifier	accuracy	5	0.6940298507462687
6	RandomForestClassifier	accuracy	5	0.7014925373134329
6	RandomForestClassifier	accuracy	5	0.7014925373134329
6	RandomForestClassifier	accuracy	5	0.7313432835820896
6	RandomForestClassifier	accuracy	50	0.7611940298507462
6	RandomForestClassifier	accuracy	50	0.7388059701492538
6	RandomForestClassifier	accuracy	50	0.746268656716418
6	RandomForestClassifier	accuracy	50	0.7313432835820896
7	RandomForestClassifier	accuracy	5	0.7910447761194029
7	RandomForestClassifier	accuracy	5	0.7388059701492538
7	RandomForestClassifier	accuracy	5	0.6865671641791045
7	RandomForestClassifier	accuracy	5	0.746268656716418
7	RandomForestClassifier	accuracy	50	0.746268656716418
7	RandomForestClassifier	accuracy	50	0.746268656716418
7	RandomForestClassifier	accuracy	50	0.746268656716418
7	RandomForestClassifier	accuracy	50	0.753731343283582
8	RandomForestClassifier	accuracy	5	0.6917293233082706
8	RandomForestClassifier	accuracy	5	0.6917293233082706
8	RandomForestClassifier	accuracy	5	0.706766917293233
8	RandomForestClassifier	accuracy	5	0.6766917293233082
8	RandomForestClassifier	accuracy	50	0.6766917293233082
8	RandomForestClassifier	accuracy	50	0.706766917293233
8	RandomForestClassifier	accuracy	50	0.706766917293233
8	RandomForestClassifier	accuracy	50	0.7142857142857143
9	RandomForestClassifier	accuracy	5	0.6691729323308271
9	RandomForestClassifier	accuracy	5	0.7293233082706767
9	RandomForestClassifier	accuracy	5	0.6992481203007519
9	RandomForestClassifier	accuracy	5	0.7142857142857143
9	RandomForestClassifier	accuracy	50	0.7293233082706767
9	RandomForestClassifier	accuracy	50	0.7443609022556391
9	RandomForestClassifier	accuracy	50	0.7142857142857143
9	RandomForestClassifier	accuracy	50	0.7368421052631579
10	RandomForestClassifier	accuracy	5	0.6992481203007519
10	RandomForestClassifier	accuracy	5	0.6766917293233082
10	RandomForestClassifier	accuracy	5	0.7518796992481203
10	RandomForestClassifier	accuracy	5	0.6842105263157895

10	RandomForestClassifier	accuracy	50	0.7142857142857143
10	RandomForestClassifier	accuracy	50	0.6842105263157895
10	RandomForestClassifier	accuracy	50	0.706766917293233
10	RandomForestClassifier	accuracy	50	0.706766917293233
11	RandomForestClassifier	accuracy	5	0.664179104477612
11	RandomForestClassifier	accuracy	5	0.6716417910447762
11	RandomForestClassifier	accuracy	5	0.6940298507462687
11	RandomForestClassifier	accuracy	5	0.6716417910447762
11	RandomForestClassifier	accuracy	50	0.746268656716418
11	RandomForestClassifier	accuracy	50	0.7164179104477612
11	RandomForestClassifier	accuracy	50	0.7238805970149254
11	RandomForestClassifier	accuracy	50	0.7089552238805971
12	RandomForestClassifier	accuracy	5	0.7238805970149254
12	RandomForestClassifier	accuracy	5	0.746268656716418
12	RandomForestClassifier	accuracy	5	0.6492537313432836
12	RandomForestClassifier	accuracy	5	0.753731343283582
12	RandomForestClassifier	accuracy	50	0.7761194029850746
12	RandomForestClassifier	accuracy	50	0.7761194029850746
12	RandomForestClassifier	accuracy	50	0.7686567164179104
12	RandomForestClassifier	accuracy	50	0.7761194029850746
13	RandomForestClassifier	accuracy	5	0.7142857142857143
13	RandomForestClassifier	accuracy	5	0.706766917293233
13	RandomForestClassifier	accuracy	5	0.7142857142857143
13	RandomForestClassifier	accuracy	5	0.6992481203007519
13	RandomForestClassifier	accuracy	50	0.7368421052631579
13	RandomForestClassifier	accuracy	50	0.7142857142857143
13	RandomForestClassifier	accuracy	50	0.7443609022556391
13	RandomForestClassifier	accuracy	50	0.7218045112781954
14	RandomForestClassifier	accuracy	5	0.6766917293233082
14	RandomForestClassifier	accuracy	5	0.7368421052631579
14	RandomForestClassifier	accuracy	5	0.6842105263157895
14	RandomForestClassifier	accuracy	5	0.6992481203007519
14	RandomForestClassifier	accuracy	50	0.7518796992481203
14	RandomForestClassifier	accuracy	50	0.7443609022556391
14	RandomForestClassifier	accuracy	50	0.7593984962406015
14	RandomForestClassifier	accuracy	50	0.7593984962406015
15	RandomForestClassifier	accuracy	5	0.7443609022556391
15	RandomForestClassifier	accuracy	5	0.6992481203007519
15	RandomForestClassifier	accuracy	5	0.7142857142857143
15	RandomForestClassifier	accuracy	5	0.6766917293233082
15	RandomForestClassifier	accuracy	50	0.7593984962406015
15	RandomForestClassifier	accuracy	50	0.7293233082706767
15	RandomForestClassifier	accuracy	50	0.7518796992481203

15	RandomForestClassifier	accuracy	50	0.7593984962406015
16	RandomForestClassifier	accuracy	5	0.7388059701492538
16	RandomForestClassifier	accuracy	5	0.6940298507462687
16	RandomForestClassifier	accuracy	5	0.7313432835820896
16	RandomForestClassifier	accuracy	5	0.7164179104477612
16	RandomForestClassifier	accuracy	50	0.7611940298507462
16	RandomForestClassifier	accuracy	50	0.753731343283582
16	RandomForestClassifier	accuracy	50	0.7388059701492538
16	RandomForestClassifier	accuracy	50	0.7686567164179104
17	RandomForestClassifier	accuracy	5	0.7014925373134329
17	RandomForestClassifier	accuracy	5	0.6791044776119403
17	RandomForestClassifier	accuracy	5	0.7014925373134329
17	RandomForestClassifier	accuracy	5	0.7164179104477612
17	RandomForestClassifier	accuracy	50	0.7611940298507462
17	RandomForestClassifier	accuracy	50	0.7611940298507462
17	RandomForestClassifier	accuracy	50	0.7611940298507462
17	RandomForestClassifier	accuracy	50	0.7238805970149254
18	RandomForestClassifier	accuracy	5	0.7293233082706767
18	RandomForestClassifier	accuracy	5	0.6917293233082706
18	RandomForestClassifier	accuracy	5	0.7518796992481203
18	RandomForestClassifier	accuracy	5	0.6992481203007519
18	RandomForestClassifier	accuracy	50	0.7819548872180451
18	RandomForestClassifier	accuracy	50	0.7969924812030075
18	RandomForestClassifier	accuracy	50	0.7593984962406015
18	RandomForestClassifier	accuracy	50	0.7744360902255639
19	RandomForestClassifier	accuracy	5	0.7218045112781954
19	RandomForestClassifier	accuracy	5	0.7142857142857143
19	RandomForestClassifier	accuracy	5	0.7368421052631579
19	RandomForestClassifier	accuracy	5	0.706766917293233
19	RandomForestClassifier	accuracy	50	0.7368421052631579
19	RandomForestClassifier	accuracy	50	0.7368421052631579
19	RandomForestClassifier	accuracy	50	0.7368421052631579
19	RandomForestClassifier	accuracy	50	0.7368421052631579
20	RandomForestClassifier	accuracy	5	0.6992481203007519
20	RandomForestClassifier	accuracy	5	0.6917293233082706
20	RandomForestClassifier	accuracy	5	0.6917293233082706
20	RandomForestClassifier	accuracy	5	0.6691729323308271
20	RandomForestClassifier	accuracy	50	0.7293233082706767
20	RandomForestClassifier	accuracy	50	0.7142857142857143
20	RandomForestClassifier	accuracy	50	0.6842105263157895
20	RandomForestClassifier	accuracy	50	0.6766917293233082
21	RandomForestClassifier	accuracy	5	0.6716417910447762
21	RandomForestClassifier	accuracy	5	0.6791044776119403

21	RandomForestClassifier	accuracy	5	0.664179104477612
21	RandomForestClassifier	accuracy	5	0.6791044776119403
21	RandomForestClassifier	accuracy	50	0.7388059701492538
21	RandomForestClassifier	accuracy	50	0.6940298507462687
21	RandomForestClassifier	accuracy	50	0.6865671641791045
21	RandomForestClassifier	accuracy	50	0.7238805970149254
22	RandomForestClassifier	accuracy	5	0.6716417910447762
22	RandomForestClassifier	accuracy	5	0.6791044776119403
22	RandomForestClassifier	accuracy	5	0.7089552238805971
22	RandomForestClassifier	accuracy	5	0.7313432835820896
22	RandomForestClassifier	accuracy	50	0.7164179104477612
22	RandomForestClassifier	accuracy	50	0.7388059701492538
22	RandomForestClassifier	accuracy	50	0.7164179104477612
22	RandomForestClassifier	accuracy	50	0.7910447761194029
23	RandomForestClassifier	accuracy	5	0.706766917293233
23	RandomForestClassifier	accuracy	5	0.6842105263157895
23	RandomForestClassifier	accuracy	5	0.6842105263157895
23	RandomForestClassifier	accuracy	5	0.706766917293233
23	RandomForestClassifier	accuracy	50	0.7518796992481203
23	RandomForestClassifier	accuracy	50	0.7443609022556391
23	RandomForestClassifier	accuracy	50	0.7218045112781954
23	RandomForestClassifier	accuracy	50	0.7443609022556391
24	RandomForestClassifier	accuracy	5	0.7142857142857143
24	RandomForestClassifier	accuracy	5	0.6466165413533834
24	RandomForestClassifier	accuracy	5	0.6842105263157895
24	RandomForestClassifier	accuracy	5	0.7142857142857143
24	RandomForestClassifier	accuracy	50	0.7142857142857143
24	RandomForestClassifier	accuracy	50	0.706766917293233
24	RandomForestClassifier	accuracy	50	0.7142857142857143
24	RandomForestClassifier	accuracy	50	0.6992481203007519
25	RandomForestClassifier	accuracy	5	0.7293233082706767
25	RandomForestClassifier	accuracy	5	0.7368421052631579
25	RandomForestClassifier	accuracy	5	0.7518796992481203
25	RandomForestClassifier	accuracy	5	0.7218045112781954
25	RandomForestClassifier	accuracy	50	0.7593984962406015
25	RandomForestClassifier	accuracy	50	0.7669172932330827
25	RandomForestClassifier	accuracy	50	0.7744360902255639
25	RandomForestClassifier	accuracy	50	0.7593984962406015
1	RandomForestClassifier	f1	5	0.7539267015706806
1	RandomForestClassifier	f1	5	0.783068783068783
1	RandomForestClassifier	f1	5	0.7938144329896908
1	RandomForestClassifier	f1	5	0.7979797979797979
1	RandomForestClassifier	f1	50	0.8367346938775511

1	RandomForestClassifier	f1	50	0.8241206030150755
1	RandomForestClassifier	f1	50	0.8181818181818181
1	RandomForestClassifier	f1	50	0.8241206030150755
2	RandomForestClassifier	f1	5	0.8316831683168316
2	RandomForestClassifier	f1	5	0.8205128205128204
2	RandomForestClassifier	f1	5	0.8020304568527918
2	RandomForestClassifier	f1	5	0.7958115183246073
2	RandomForestClassifier	f1	50	0.8472906403940887
2	RandomForestClassifier	f1	50	0.8627450980392157
2	RandomForestClassifier	f1	50	0.8542713567839195
2	RandomForestClassifier	f1	50	0.8585365853658538
3	RandomForestClassifier	f1	5	0.8500000000000001
3	RandomForestClassifier	f1	5	0.7979797979797979
3	RandomForestClassifier	f1	5	0.836734693877551
3	RandomForestClassifier	f1	5	0.8102564102564103
3	RandomForestClassifier	f1	50	0.83
3	RandomForestClassifier	f1	50	0.84
3	RandomForestClassifier	f1	50	0.8292682926829268
3	RandomForestClassifier	f1	50	0.8557692307692307
4	RandomForestClassifier	f1	5	0.7897435897435897
4	RandomForestClassifier	f1	5	0.7960199004975125
4	RandomForestClassifier	f1	5	0.8140703517587939
4	RandomForestClassifier	f1	5	0.7777777777777777
4	RandomForestClassifier	f1	50	0.8282828282828283
4	RandomForestClassifier	f1	50	0.826530612244898
4	RandomForestClassifier	f1	50	0.8137254901960784
4	RandomForestClassifier	f1	50	0.823529411764706
5	RandomForestClassifier	f1	5	0.7653061224489796
5	RandomForestClassifier	f1	5	0.787878787878788
5	RandomForestClassifier	f1	5	0.7894736842105262
5	RandomForestClassifier	f1	5	0.758974358974359
5	RandomForestClassifier	f1	50	0.819047619047619
5	RandomForestClassifier	f1	50	0.8241206030150753
5	RandomForestClassifier	f1	50	0.803921568627451
5	RandomForestClassifier	f1	50	0.8349514563106796
6	RandomForestClassifier	f1	5	0.783068783068783
6	RandomForestClassifier	f1	5	0.7894736842105263
6	RandomForestClassifier	f1	5	0.7894736842105263
6	RandomForestClassifier	f1	5	0.8200000000000001
6	RandomForestClassifier	f1	50	0.8446601941747574
6	RandomForestClassifier	f1	50	0.8258706467661693
6	RandomForestClassifier	f1	50	0.8265306122448979
6	RandomForestClassifier	f1	50	0.8200000000000001

7	RandomForestClassifier	f1	5	0.8613861386138614
7	RandomForestClassifier	f1	5	0.8258706467661693
7	RandomForestClassifier	f1	5	0.79
7	RandomForestClassifier	f1	5	0.8282828282828283
7	RandomForestClassifier	f1	50	0.8300000000000001
7	RandomForestClassifier	f1	50	0.8333333333333334
7	RandomForestClassifier	f1	50	0.8365384615384615
7	RandomForestClassifier	f1	50	0.8405797101449276
8	RandomForestClassifier	f1	5	0.7875647668393783
8	RandomForestClassifier	f1	5	0.7918781725888324
8	RandomForestClassifier	f1	5	0.7891891891891891
8	RandomForestClassifier	f1	5	0.7860696517412935
8	RandomForestClassifier	f1	50	0.7817258883248731
8	RandomForestClassifier	f1	50	0.7999999999999999
8	RandomForestClassifier	f1	50	0.8020304568527918
8	RandomForestClassifier	f1	50	0.8020833333333334
9	RandomForestClassifier	f1	5	0.7864077669902911
9	RandomForestClassifier	f1	5	0.82
9	RandomForestClassifier	f1	5	0.801980198019802
9	RandomForestClassifier	f1	5	0.8137254901960784
9	RandomForestClassifier	f1	50	0.826923076923077
9	RandomForestClassifier	f1	50	0.8365384615384615
9	RandomForestClassifier	f1	50	0.819047619047619
9	RandomForestClassifier	f1	50	0.8341232227488151
10	RandomForestClassifier	f1	5	0.7938144329896908
10	RandomForestClassifier	f1	5	0.7794871794871795
10	RandomForestClassifier	f1	5	0.8374384236453202
10	RandomForestClassifier	f1	5	0.787878787878788
10	RandomForestClassifier	f1	50	0.81
10	RandomForestClassifier	f1	50	0.7857142857142857
10	RandomForestClassifier	f1	50	0.8078817733990148
10	RandomForestClassifier	f1	50	0.7999999999999999
11	RandomForestClassifier	f1	5	0.7643979057591621
11	RandomForestClassifier	f1	5	0.7608695652173912
11	RandomForestClassifier	f1	5	0.7875647668393781
11	RandomForestClassifier	f1	5	0.7731958762886597
11	RandomForestClassifier	f1	50	0.8300000000000001
11	RandomForestClassifier	f1	50	0.8155339805825244
11	RandomForestClassifier	f1	50	0.8246445497630333
11	RandomForestClassifier	f1	50	0.8059701492537313
12	RandomForestClassifier	f1	5	0.8140703517587939
12	RandomForestClassifier	f1	5	0.8265306122448979
12	RandomForestClassifier	f1	5	0.7729468599033816

12	RandomForestClassifier	f1	5	0.8272251308900525
12	RandomForestClassifier	f1	50	0.8514851485148516
12	RandomForestClassifier	f1	50	0.8514851485148516
12	RandomForestClassifier	f1	50	0.848780487804878
12	RandomForestClassifier	f1	50	0.8500000000000001
13	RandomForestClassifier	f1	5	0.8061224489795918
13	RandomForestClassifier	f1	5	0.7936507936507936
13	RandomForestClassifier	f1	5	0.8020833333333334
13	RandomForestClassifier	f1	5	0.7979797979797979
13	RandomForestClassifier	f1	50	0.8241206030150753
13	RandomForestClassifier	f1	50	0.8118811881188119
13	RandomForestClassifier	f1	50	0.8247422680412373
13	RandomForestClassifier	f1	50	0.8140703517587939
14	RandomForestClassifier	f1	5	0.7881773399014779
14	RandomForestClassifier	f1	5	0.8258706467661692
14	RandomForestClassifier	f1	5	0.7835051546391754
14	RandomForestClassifier	f1	5	0.801980198019802
14	RandomForestClassifier	f1	50	0.8390243902439024
14	RandomForestClassifier	f1	50	0.83
14	RandomForestClassifier	f1	50	0.8431372549019608
14	RandomForestClassifier	f1	50	0.8431372549019608
15	RandomForestClassifier	f1	5	0.8229166666666666
15	RandomForestClassifier	f1	5	0.803921568627451
15	RandomForestClassifier	f1	5	0.8041237113402062
15	RandomForestClassifier	f1	5	0.7794871794871795
15	RandomForestClassifier	f1	50	0.8383838383838383
15	RandomForestClassifier	f1	50	0.8181818181818182
15	RandomForestClassifier	f1	50	0.835820895522388
15	RandomForestClassifier	f1	50	0.836734693877551
16	RandomForestClassifier	f1	5	0.8258706467661693
16	RandomForestClassifier	f1	5	0.7853403141361256
16	RandomForestClassifier	f1	5	0.8105263157894737
16	RandomForestClassifier	f1	5	0.8099999999999999
16	RandomForestClassifier	f1	50	0.8476190476190476
16	RandomForestClassifier	f1	50	0.8358208955223881
16	RandomForestClassifier	f1	50	0.8258706467661693
16	RandomForestClassifier	f1	50	0.8530805687203793
17	RandomForestClassifier	f1	5	0.803921568627451
17	RandomForestClassifier	f1	5	0.7794871794871795
17	RandomForestClassifier	f1	5	0.8
17	RandomForestClassifier	f1	5	0.8020833333333333
17	RandomForestClassifier	f1	50	0.8461538461538461
17	RandomForestClassifier	f1	50	0.8415841584158417

17	RandomForestClassifier	f1	50	0.8400000000000001
17	RandomForestClassifier	f1	50	0.8229665071770335
18	RandomForestClassifier	f1	5	0.82
18	RandomForestClassifier	f1	5	0.7807486631016043
18	RandomForestClassifier	f1	5	0.8290155440414508
18	RandomForestClassifier	f1	5	0.7916666666666666
18	RandomForestClassifier	f1	50	0.8571428571428572
18	RandomForestClassifier	f1	50	0.8669950738916257
18	RandomForestClassifier	f1	50	0.8446601941747574
18	RandomForestClassifier	f1	50	0.8484848484848486
19	RandomForestClassifier	f1	5	0.8102564102564103
19	RandomForestClassifier	f1	5	0.8020833333333334
19	RandomForestClassifier	f1	5	0.8292682926829268
19	RandomForestClassifier	f1	5	0.8040201005025127
19	RandomForestClassifier	f1	50	0.8258706467661692
19	RandomForestClassifier	f1	50	0.8258706467661692
19	RandomForestClassifier	f1	50	0.8275862068965516
19	RandomForestClassifier	f1	50	0.8275862068965516
20	RandomForestClassifier	f1	5	0.7959183673469389
20	RandomForestClassifier	f1	5	0.7980295566502462
20	RandomForestClassifier	f1	5	0.7875647668393783
20	RandomForestClassifier	f1	5	0.7755102040816327
20	RandomForestClassifier	f1	50	0.823529411764706
20	RandomForestClassifier	f1	50	0.8137254901960784
20	RandomForestClassifier	f1	50	0.7941176470588235
20	RandomForestClassifier	f1	50	0.7860696517412935
21	RandomForestClassifier	f1	5	0.7777777777777779
21	RandomForestClassifier	f1	5	0.7772020725388601
21	RandomForestClassifier	f1	5	0.7783251231527094
21	RandomForestClassifier	f1	5	0.7860696517412935
21	RandomForestClassifier	f1	50	0.835680751173709
21	RandomForestClassifier	f1	50	0.8075117370892019
21	RandomForestClassifier	f1	50	0.8055555555555556
21	RandomForestClassifier	f1	50	0.8279069767441861
22	RandomForestClassifier	f1	5	0.7731958762886597
22	RandomForestClassifier	f1	5	0.7839195979899497
22	RandomForestClassifier	f1	5	0.7999999999999999
22	RandomForestClassifier	f1	5	0.8200000000000001
22	RandomForestClassifier	f1	50	0.8118811881188118
22	RandomForestClassifier	f1	50	0.8258706467661693
22	RandomForestClassifier	f1	50	0.8118811881188118
22	RandomForestClassifier	f1	50	0.8613861386138614
23	RandomForestClassifier	f1	5	0.8059701492537312

23	RandomForestClassifier	f1	5	0.7857142857142857
23	RandomForestClassifier	f1	5	0.7812499999999999
23	RandomForestClassifier	f1	5	0.8020304568527918
23	RandomForestClassifier	f1	50	0.8341708542713568
23	RandomForestClassifier	f1	50	0.8316831683168318
23	RandomForestClassifier	f1	50	0.8159203980099504
23	RandomForestClassifier	f1	50	0.8316831683168318
24	RandomForestClassifier	f1	5	0.7934782608695653
24	RandomForestClassifier	f1	5	0.7513227513227514
24	RandomForestClassifier	f1	5	0.7812499999999999
24	RandomForestClassifier	f1	5	0.8041237113402062
24	RandomForestClassifier	f1	50	0.8020833333333334
24	RandomForestClassifier	f1	50	0.7999999999999999
24	RandomForestClassifier	f1	50	0.8041237113402062
24	RandomForestClassifier	f1	50	0.7916666666666666
25	RandomForestClassifier	f1	5	0.8125
25	RandomForestClassifier	f1	5	0.8223350253807107
25	RandomForestClassifier	f1	5	0.8290155440414508
25	RandomForestClassifier	f1	5	0.806282722513089
25	RandomForestClassifier	f1	50	0.8415841584158414
25	RandomForestClassifier	f1	50	0.8472906403940887
25	RandomForestClassifier	f1	50	0.8500000000000001
25	RandomForestClassifier	f1	50	0.8431372549019608

Table 42: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.7388059701492538
1	SVC	accuracy	linear	0.7388059701492538
1	SVC	accuracy	rbf	0.7835820895522388
1	SVC	accuracy	rbf	0.7835820895522388
1	SVC	accuracy	linear	0.7388059701492538
1	SVC	accuracy	linear	0.7388059701492538
1	SVC	accuracy	rbf	0.7835820895522388
1	SVC	accuracy	rbf	0.7835820895522388
2	SVC	accuracy	linear	0.746268656716418
2	SVC	accuracy	linear	0.746268656716418
2	SVC	accuracy	rbf	0.7686567164179104
2	SVC	accuracy	rbf	0.7686567164179104
2	SVC	accuracy	linear	0.746268656716418
2	SVC	accuracy	linear	0.746268656716418

2	SVC	accuracy	rbf	0.7686567164179104
2	SVC	accuracy	rbf	0.7686567164179104
3	SVC	accuracy	linear	0.7443609022556391
3	SVC	accuracy	linear	0.7443609022556391
3	SVC	accuracy	rbf	0.7368421052631579
3	SVC	accuracy	rbf	0.7368421052631579
3	SVC	accuracy	linear	0.7443609022556391
3	SVC	accuracy	linear	0.7443609022556391
3	SVC	accuracy	rbf	0.7368421052631579
3	SVC	accuracy	rbf	0.7368421052631579
4	SVC	accuracy	linear	0.7819548872180451
4	SVC	accuracy	linear	0.7819548872180451
4	SVC	accuracy	rbf	0.7593984962406015
4	SVC	accuracy	rbf	0.7593984962406015
4	SVC	accuracy	linear	0.7819548872180451
4	SVC	accuracy	linear	0.7819548872180451
4	SVC	accuracy	rbf	0.7593984962406015
4	SVC	accuracy	rbf	0.7593984962406015
5	SVC	accuracy	linear	0.6992481203007519
5	SVC	accuracy	linear	0.6992481203007519
5	SVC	accuracy	rbf	0.7518796992481203
5	SVC	accuracy	rbf	0.7518796992481203
5	SVC	accuracy	linear	0.6992481203007519
5	SVC	accuracy	linear	0.6992481203007519
5	SVC	accuracy	rbf	0.7518796992481203
5	SVC	accuracy	rbf	0.7518796992481203
6	SVC	accuracy	linear	0.746268656716418
6	SVC	accuracy	linear	0.746268656716418
6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	linear	0.746268656716418
6	SVC	accuracy	linear	0.746268656716418
6	SVC	accuracy	rbf	0.7611940298507462
6	SVC	accuracy	rbf	0.7611940298507462
7	SVC	accuracy	linear	0.746268656716418
7	SVC	accuracy	linear	0.746268656716418
7	SVC	accuracy	rbf	0.7835820895522388
7	SVC	accuracy	rbf	0.7835820895522388
7	SVC	accuracy	linear	0.746268656716418
7	SVC	accuracy	linear	0.746268656716418
7	SVC	accuracy	rbf	0.7835820895522388
7	SVC	accuracy	rbf	0.7835820895522388
8	SVC	accuracy	linear	0.6917293233082706

8	SVC	accuracy	linear	0.6917293233082706
8	SVC	accuracy	rbf	0.6992481203007519
8	SVC	accuracy	rbf	0.6992481203007519
8	SVC	accuracy	linear	0.6917293233082706
8	SVC	accuracy	linear	0.6917293233082706
8	SVC	accuracy	rbf	0.6992481203007519
8	SVC	accuracy	rbf	0.6992481203007519
9	SVC	accuracy	linear	0.7669172932330827
9	SVC	accuracy	linear	0.7669172932330827
9	SVC	accuracy	rbf	0.7293233082706767
9	SVC	accuracy	rbf	0.7293233082706767
9	SVC	accuracy	linear	0.7669172932330827
9	SVC	accuracy	linear	0.7669172932330827
9	SVC	accuracy	rbf	0.7293233082706767
9	SVC	accuracy	rbf	0.7293233082706767
10	SVC	accuracy	linear	0.6616541353383458
10	SVC	accuracy	linear	0.6616541353383458
10	SVC	accuracy	rbf	0.6842105263157895
10	SVC	accuracy	rbf	0.6842105263157895
10	SVC	accuracy	linear	0.6616541353383458
10	SVC	accuracy	linear	0.6616541353383458
10	SVC	accuracy	rbf	0.6842105263157895
10	SVC	accuracy	rbf	0.6842105263157895
11	SVC	accuracy	linear	0.7014925373134329
11	SVC	accuracy	linear	0.7014925373134329
11	SVC	accuracy	rbf	0.7313432835820896
11	SVC	accuracy	rbf	0.7313432835820896
11	SVC	accuracy	linear	0.7014925373134329
11	SVC	accuracy	linear	0.7014925373134329
11	SVC	accuracy	rbf	0.7313432835820896
11	SVC	accuracy	rbf	0.7313432835820896
12	SVC	accuracy	linear	0.7238805970149254
12	SVC	accuracy	linear	0.7238805970149254
12	SVC	accuracy	rbf	0.7611940298507462
12	SVC	accuracy	rbf	0.7611940298507462
12	SVC	accuracy	linear	0.7238805970149254
12	SVC	accuracy	linear	0.7238805970149254
12	SVC	accuracy	rbf	0.7611940298507462
12	SVC	accuracy	rbf	0.7611940298507462
13	SVC	accuracy	linear	0.7443609022556391
13	SVC	accuracy	linear	0.7443609022556391
13	SVC	accuracy	rbf	0.7593984962406015
13	SVC	accuracy	rbf	0.7593984962406015

13	SVC	accuracy	linear	0.7443609022556391
13	SVC	accuracy	linear	0.7443609022556391
13	SVC	accuracy	rbf	0.7593984962406015
13	SVC	accuracy	rbf	0.7593984962406015
14	SVC	accuracy	linear	0.7593984962406015
14	SVC	accuracy	linear	0.7593984962406015
14	SVC	accuracy	rbf	0.7744360902255639
14	SVC	accuracy	rbf	0.7744360902255639
14	SVC	accuracy	linear	0.7593984962406015
14	SVC	accuracy	linear	0.7593984962406015
14	SVC	accuracy	rbf	0.7744360902255639
14	SVC	accuracy	rbf	0.7744360902255639
15	SVC	accuracy	linear	0.7368421052631579
15	SVC	accuracy	linear	0.7368421052631579
15	SVC	accuracy	rbf	0.7443609022556391
15	SVC	accuracy	rbf	0.7443609022556391
15	SVC	accuracy	linear	0.7368421052631579
15	SVC	accuracy	linear	0.7368421052631579
15	SVC	accuracy	rbf	0.7443609022556391
15	SVC	accuracy	rbf	0.7443609022556391
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	linear	0.7014925373134329
16	SVC	accuracy	rbf	0.7388059701492538
16	SVC	accuracy	rbf	0.7388059701492538
17	SVC	accuracy	linear	0.7611940298507462
17	SVC	accuracy	linear	0.7611940298507462
17	SVC	accuracy	rbf	0.7686567164179104
17	SVC	accuracy	rbf	0.7686567164179104
17	SVC	accuracy	linear	0.7611940298507462
17	SVC	accuracy	linear	0.7611940298507462
17	SVC	accuracy	rbf	0.7686567164179104
17	SVC	accuracy	rbf	0.7686567164179104
18	SVC	accuracy	linear	0.7368421052631579
18	SVC	accuracy	linear	0.7368421052631579
18	SVC	accuracy	rbf	0.7518796992481203
18	SVC	accuracy	rbf	0.7518796992481203
18	SVC	accuracy	linear	0.7368421052631579
18	SVC	accuracy	linear	0.7368421052631579
18	SVC	accuracy	rbf	0.7518796992481203

18	SVC	accuracy	rbf	0.7518796992481203
19	SVC	accuracy	linear	0.7368421052631579
19	SVC	accuracy	linear	0.7368421052631579
19	SVC	accuracy	rbf	0.7518796992481203
19	SVC	accuracy	rbf	0.7518796992481203
19	SVC	accuracy	linear	0.7368421052631579
19	SVC	accuracy	linear	0.7368421052631579
19	SVC	accuracy	rbf	0.7518796992481203
19	SVC	accuracy	rbf	0.7518796992481203
20	SVC	accuracy	linear	0.6917293233082706
20	SVC	accuracy	linear	0.6917293233082706
20	SVC	accuracy	rbf	0.7443609022556391
20	SVC	accuracy	rbf	0.7443609022556391
20	SVC	accuracy	linear	0.6917293233082706
20	SVC	accuracy	linear	0.6917293233082706
20	SVC	accuracy	rbf	0.7443609022556391
20	SVC	accuracy	rbf	0.7443609022556391
21	SVC	accuracy	linear	0.7089552238805971
21	SVC	accuracy	linear	0.7089552238805971
21	SVC	accuracy	rbf	0.7164179104477612
21	SVC	accuracy	rbf	0.7164179104477612
21	SVC	accuracy	linear	0.7089552238805971
21	SVC	accuracy	linear	0.7089552238805971
21	SVC	accuracy	rbf	0.7164179104477612
21	SVC	accuracy	rbf	0.7164179104477612
22	SVC	accuracy	linear	0.7238805970149254
22	SVC	accuracy	linear	0.7238805970149254
22	SVC	accuracy	rbf	0.746268656716418
22	SVC	accuracy	rbf	0.746268656716418
22	SVC	accuracy	linear	0.7238805970149254
22	SVC	accuracy	linear	0.7238805970149254
22	SVC	accuracy	rbf	0.746268656716418
22	SVC	accuracy	rbf	0.746268656716418
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	rbf	0.7443609022556391
23	SVC	accuracy	rbf	0.7443609022556391
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	rbf	0.7443609022556391
23	SVC	accuracy	rbf	0.7443609022556391
24	SVC	accuracy	linear	0.7368421052631579
24	SVC	accuracy	linear	0.7368421052631579

24	SVC	accuracy	rbf	0.7368421052631579
24	SVC	accuracy	rbf	0.7368421052631579
24	SVC	accuracy	linear	0.7368421052631579
24	SVC	accuracy	linear	0.7368421052631579
24	SVC	accuracy	rbf	0.7368421052631579
24	SVC	accuracy	rbf	0.7368421052631579
25	SVC	accuracy	linear	0.7518796992481203
25	SVC	accuracy	linear	0.7518796992481203
25	SVC	accuracy	rbf	0.7593984962406015
25	SVC	accuracy	rbf	0.7593984962406015
25	SVC	accuracy	linear	0.7518796992481203
25	SVC	accuracy	linear	0.7518796992481203
25	SVC	accuracy	rbf	0.7593984962406015
25	SVC	accuracy	rbf	0.7593984962406015
1	SVC	f1	linear	0.8205128205128204
1	SVC	f1	linear	0.8205128205128204
1	SVC	f1	rbf	0.8571428571428571
1	SVC	f1	rbf	0.8571428571428571
1	SVC	f1	linear	0.8205128205128204
1	SVC	f1	linear	0.8205128205128204
1	SVC	f1	rbf	0.8571428571428571
1	SVC	f1	rbf	0.8571428571428571
2	SVC	f1	linear	0.8247422680412372
2	SVC	f1	linear	0.8247422680412372
2	SVC	f1	rbf	0.8502415458937199
2	SVC	f1	rbf	0.8502415458937199
2	SVC	f1	linear	0.8247422680412372
2	SVC	f1	linear	0.8247422680412372
2	SVC	f1	rbf	0.8502415458937199
2	SVC	f1	rbf	0.8502415458937199
3	SVC	f1	linear	0.8229166666666666
3	SVC	f1	linear	0.8229166666666666
3	SVC	f1	rbf	0.8309178743961353
3	SVC	f1	rbf	0.8309178743961353
3	SVC	f1	linear	0.8229166666666666
3	SVC	f1	linear	0.8229166666666666
3	SVC	f1	rbf	0.8309178743961353
3	SVC	f1	rbf	0.8309178743961353
4	SVC	f1	linear	0.8481675392670157
4	SVC	f1	linear	0.8481675392670157
4	SVC	f1	rbf	0.8446601941747574
4	SVC	f1	rbf	0.8446601941747574
4	SVC	f1	linear	0.8481675392670157

4	SVC	f1	linear	0.8481675392670157
4	SVC	f1	rbf	0.8446601941747574
4	SVC	f1	rbf	0.8446601941747574
5	SVC	f1	linear	0.7959183673469389
5	SVC	f1	linear	0.7959183673469389
5	SVC	f1	rbf	0.8421052631578947
5	SVC	f1	rbf	0.8421052631578947
5	SVC	f1	linear	0.7959183673469389
5	SVC	f1	linear	0.7959183673469389
5	SVC	f1	rbf	0.8421052631578947
5	SVC	f1	rbf	0.8421052631578947
6	SVC	f1	linear	0.8152173913043479
6	SVC	f1	linear	0.8152173913043479
6	SVC	f1	rbf	0.8400000000000001
6	SVC	f1	rbf	0.8400000000000001
6	SVC	f1	linear	0.8152173913043479
6	SVC	f1	linear	0.8152173913043479
6	SVC	f1	rbf	0.8400000000000001
6	SVC	f1	rbf	0.8400000000000001
7	SVC	f1	linear	0.8300000000000001
7	SVC	f1	linear	0.8300000000000001
7	SVC	f1	rbf	0.861244019138756
7	SVC	f1	rbf	0.861244019138756
7	SVC	f1	linear	0.8300000000000001
7	SVC	f1	linear	0.8300000000000001
7	SVC	f1	rbf	0.861244019138756
7	SVC	f1	rbf	0.861244019138756
8	SVC	f1	linear	0.7783783783783783
8	SVC	f1	linear	0.7783783783783783
8	SVC	f1	rbf	0.801980198019802
8	SVC	f1	rbf	0.801980198019802
8	SVC	f1	linear	0.7783783783783783
8	SVC	f1	linear	0.7783783783783783
8	SVC	f1	rbf	0.801980198019802
8	SVC	f1	rbf	0.801980198019802
9	SVC	f1	linear	0.8426395939086294
9	SVC	f1	linear	0.8426395939086294
9	SVC	f1	rbf	0.8301886792452831
9	SVC	f1	rbf	0.8301886792452831
9	SVC	f1	linear	0.8426395939086294
9	SVC	f1	linear	0.8426395939086294
9	SVC	f1	rbf	0.8301886792452831
9	SVC	f1	rbf	0.8301886792452831

10	SVC	f1	linear	0.7619047619047619
10	SVC	f1	linear	0.7619047619047619
10	SVC	f1	rbf	0.787878787878788
10	SVC	f1	rbf	0.787878787878788
10	SVC	f1	linear	0.7619047619047619
10	SVC	f1	linear	0.7619047619047619
10	SVC	f1	rbf	0.787878787878788
10	SVC	f1	rbf	0.787878787878788
11	SVC	f1	linear	0.8
11	SVC	f1	linear	0.8
11	SVC	f1	rbf	0.8285714285714285
11	SVC	f1	rbf	0.8285714285714285
11	SVC	f1	linear	0.8
11	SVC	f1	linear	0.8
11	SVC	f1	rbf	0.8285714285714285
11	SVC	f1	rbf	0.8285714285714285
12	SVC	f1	linear	0.8102564102564104
12	SVC	f1	linear	0.8102564102564104
12	SVC	f1	rbf	0.8446601941747574
12	SVC	f1	rbf	0.8446601941747574
12	SVC	f1	linear	0.8102564102564104
12	SVC	f1	linear	0.8102564102564104
12	SVC	f1	rbf	0.8446601941747574
12	SVC	f1	rbf	0.8446601941747574
13	SVC	f1	linear	0.8172043010752688
13	SVC	f1	linear	0.8172043010752688
13	SVC	f1	rbf	0.8446601941747574
13	SVC	f1	rbf	0.8446601941747574
13	SVC	f1	linear	0.8172043010752688
13	SVC	f1	linear	0.8172043010752688
13	SVC	f1	rbf	0.8446601941747574
13	SVC	f1	rbf	0.8446601941747574
14	SVC	f1	linear	0.8383838383838383
14	SVC	f1	linear	0.8383838383838383
14	SVC	f1	rbf	0.854368932038835
14	SVC	f1	rbf	0.854368932038835
14	SVC	f1	linear	0.8383838383838383
14	SVC	f1	linear	0.8383838383838383
14	SVC	f1	rbf	0.854368932038835
14	SVC	f1	rbf	0.854368932038835
15	SVC	f1	linear	0.8148148148148148
15	SVC	f1	linear	0.8148148148148148
15	SVC	f1	rbf	0.83

15	SVC	f1	rbf	0.83
15	SVC	f1	linear	0.8148148148148148
15	SVC	f1	linear	0.8148148148148148
15	SVC	f1	rbf	0.83
15	SVC	f1	rbf	0.83
16	SVC	f1	linear	0.7959183673469387
16	SVC	f1	linear	0.7959183673469387
16	SVC	f1	rbf	0.8325358851674641
16	SVC	f1	rbf	0.8325358851674641
16	SVC	f1	linear	0.7959183673469387
16	SVC	f1	linear	0.7959183673469387
16	SVC	f1	rbf	0.8325358851674641
16	SVC	f1	rbf	0.8325358851674641
17	SVC	f1	linear	0.8367346938775511
17	SVC	f1	linear	0.8367346938775511
17	SVC	f1	rbf	0.8530805687203793
17	SVC	f1	rbf	0.8530805687203793
17	SVC	f1	linear	0.8367346938775511
17	SVC	f1	linear	0.8367346938775511
17	SVC	f1	rbf	0.8530805687203793
17	SVC	f1	rbf	0.8530805687203793
18	SVC	f1	linear	0.8241206030150753
18	SVC	f1	linear	0.8241206030150753
18	SVC	f1	rbf	0.8405797101449276
18	SVC	f1	rbf	0.8405797101449276
18	SVC	f1	linear	0.8241206030150753
18	SVC	f1	linear	0.8241206030150753
18	SVC	f1	rbf	0.8405797101449276
18	SVC	f1	rbf	0.8405797101449276
19	SVC	f1	linear	0.8205128205128205
19	SVC	f1	linear	0.8205128205128205
19	SVC	f1	rbf	0.835820895522388
19	SVC	f1	rbf	0.835820895522388
19	SVC	f1	linear	0.8205128205128205
19	SVC	f1	linear	0.8205128205128205
19	SVC	f1	rbf	0.835820895522388
19	SVC	f1	rbf	0.835820895522388
20	SVC	f1	linear	0.7853403141361257
20	SVC	f1	linear	0.7853403141361257
20	SVC	f1	rbf	0.8316831683168318
20	SVC	f1	rbf	0.8316831683168318
20	SVC	f1	linear	0.7853403141361257
20	SVC	f1	linear	0.7853403141361257

20	SVC	f1	rbf	0.8316831683168318
20	SVC	f1	rbf	0.8316831683168318
21	SVC	f1	linear	0.8040201005025126
21	SVC	f1	linear	0.8040201005025126
21	SVC	f1	rbf	0.824074074074074
21	SVC	f1	rbf	0.824074074074074
21	SVC	f1	linear	0.8040201005025126
21	SVC	f1	linear	0.8040201005025126
21	SVC	f1	rbf	0.824074074074074
21	SVC	f1	rbf	0.824074074074074
22	SVC	f1	linear	0.8102564102564104
22	SVC	f1	linear	0.8102564102564104
22	SVC	f1	rbf	0.8333333333333334
22	SVC	f1	rbf	0.8333333333333334
22	SVC	f1	linear	0.8102564102564104
22	SVC	f1	linear	0.8102564102564104
22	SVC	f1	rbf	0.8333333333333334
22	SVC	f1	rbf	0.8333333333333334
23	SVC	f1	linear	0.8144329896907216
23	SVC	f1	linear	0.8144329896907216
23	SVC	f1	rbf	0.838095238095238
23	SVC	f1	rbf	0.838095238095238
23	SVC	f1	linear	0.8144329896907216
23	SVC	f1	linear	0.8144329896907216
23	SVC	f1	rbf	0.838095238095238
23	SVC	f1	rbf	0.838095238095238
24	SVC	f1	linear	0.8128342245989305
24	SVC	f1	linear	0.8128342245989305
24	SVC	f1	rbf	0.8223350253807107
24	SVC	f1	rbf	0.8223350253807107
24	SVC	f1	linear	0.8128342245989305
24	SVC	f1	linear	0.8128342245989305
24	SVC	f1	rbf	0.8223350253807107
24	SVC	f1	rbf	0.8223350253807107
25	SVC	f1	linear	0.8290155440414508
25	SVC	f1	linear	0.8290155440414508
25	SVC	f1	rbf	0.8461538461538463
25	SVC	f1	rbf	0.8461538461538463
25	SVC	f1	linear	0.8290155440414508
25	SVC	f1	linear	0.8290155440414508
25	SVC	f1	rbf	0.8461538461538463
25	SVC	f1	rbf	0.8461538461538463

Table 43: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.7388059701492538
1	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
1	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
1	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
1	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
1	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
1	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
1	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
2	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
2	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
2	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
2	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
2	DecisionTreeClassifier	accuracy	gini	0.664179104477612
2	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
2	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
2	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
3	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
3	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
3	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
3	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
3	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
3	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
3	DecisionTreeClassifier	accuracy	gini	0.7443609022556391
3	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
4	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
4	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
4	DecisionTreeClassifier	accuracy	gini	0.631578947368421
4	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
4	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
4	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
4	DecisionTreeClassifier	accuracy	gini	0.631578947368421
4	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
5	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
5	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
5	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
5	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
5	DecisionTreeClassifier	accuracy	gini	0.6390977443609023

5	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
5	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
5	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
6	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
6	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
6	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
6	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
6	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
6	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
6	DecisionTreeClassifier	accuracy	gini	0.6343283582089553
6	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
7	DecisionTreeClassifier	accuracy	gini	0.664179104477612
7	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
7	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
7	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
7	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
7	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
7	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
7	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
8	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
8	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
8	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
8	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
8	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
8	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
8	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
8	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
9	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
9	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
9	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
9	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
9	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
9	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
9	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
9	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
10	DecisionTreeClassifier	accuracy	gini	0.706766917293233
10	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
10	DecisionTreeClassifier	accuracy	gini	0.706766917293233
10	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
10	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
10	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
10	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
10	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143

11	DecisionTreeClassifier	accuracy	gini	0.664179104477612
11	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
11	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
11	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
11	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
11	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
11	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
11	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
12	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
12	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
12	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
12	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
12	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
12	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
12	DecisionTreeClassifier	accuracy	gini	0.6716417910447762
12	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
13	DecisionTreeClassifier	accuracy	gini	0.706766917293233
13	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
13	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
13	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
13	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
13	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
13	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
13	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
14	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
14	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
14	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
14	DecisionTreeClassifier	accuracy	entropy	0.7518796992481203
14	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
14	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
14	DecisionTreeClassifier	accuracy	gini	0.7443609022556391
14	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
15	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
15	DecisionTreeClassifier	accuracy	entropy	0.6390977443609023
15	DecisionTreeClassifier	accuracy	gini	0.7593984962406015
15	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
15	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
15	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
15	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
15	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
16	DecisionTreeClassifier	accuracy	gini	0.6044776119402985
16	DecisionTreeClassifier	accuracy	entropy	0.5895522388059702
16	DecisionTreeClassifier	accuracy	gini	0.6492537313432836

16	DecisionTreeClassifier	accuracy	entropy	0.6044776119402985
16	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
16	DecisionTreeClassifier	accuracy	entropy	0.6044776119402985
16	DecisionTreeClassifier	accuracy	gini	0.6044776119402985
16	DecisionTreeClassifier	accuracy	entropy	0.6044776119402985
17	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
17	DecisionTreeClassifier	accuracy	entropy	0.6567164179104478
17	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
17	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
17	DecisionTreeClassifier	accuracy	gini	0.664179104477612
17	DecisionTreeClassifier	accuracy	entropy	0.6417910447761194
17	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
17	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
18	DecisionTreeClassifier	accuracy	gini	0.706766917293233
18	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
18	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
18	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
18	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
18	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
18	DecisionTreeClassifier	accuracy	gini	0.706766917293233
18	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
19	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
19	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
19	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
19	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
19	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
19	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
19	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
19	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
20	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
20	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
20	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
20	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
20	DecisionTreeClassifier	accuracy	gini	0.6090225563909775
20	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
20	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
20	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
21	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
21	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
21	DecisionTreeClassifier	accuracy	gini	0.7014925373134329
21	DecisionTreeClassifier	accuracy	entropy	0.7164179104477612
21	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
21	DecisionTreeClassifier	accuracy	entropy	0.664179104477612

21	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
21	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
22	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
22	DecisionTreeClassifier	accuracy	entropy	0.6119402985074627
22	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
22	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
22	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
22	DecisionTreeClassifier	accuracy	entropy	0.6194029850746269
22	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
22	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
23	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
23	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
23	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
23	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
23	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
23	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
23	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
23	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
24	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
24	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
24	DecisionTreeClassifier	accuracy	gini	0.6616541353383458
24	DecisionTreeClassifier	accuracy	entropy	0.6466165413533834
24	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
24	DecisionTreeClassifier	accuracy	entropy	0.631578947368421
24	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
24	DecisionTreeClassifier	accuracy	entropy	0.6541353383458647
25	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
25	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
25	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
25	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
25	DecisionTreeClassifier	accuracy	gini	0.6917293233082706
25	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
25	DecisionTreeClassifier	accuracy	gini	0.706766917293233
25	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
1	DecisionTreeClassifier	f1	gini	0.8148148148148148
1	DecisionTreeClassifier	f1	entropy	0.7999999999999999
1	DecisionTreeClassifier	f1	gini	0.7783783783783782
1	DecisionTreeClassifier	f1	entropy	0.7826086956521738
1	DecisionTreeClassifier	f1	gini	0.7759562841530055
1	DecisionTreeClassifier	f1	entropy	0.7891891891891892
1	DecisionTreeClassifier	f1	gini	0.8021390374331551
1	DecisionTreeClassifier	f1	entropy	0.7912087912087913
2	DecisionTreeClassifier	f1	gini	0.7659574468085105

2	DecisionTreeClassifier	f1	entropy	0.7958115183246073
2	DecisionTreeClassifier	f1	gini	0.7772020725388601
2	DecisionTreeClassifier	f1	entropy	0.7958115183246073
2	DecisionTreeClassifier	f1	gini	0.761904761904762
2	DecisionTreeClassifier	f1	entropy	0.776595744680851
2	DecisionTreeClassifier	f1	gini	0.745945945945946
2	DecisionTreeClassifier	f1	entropy	0.7914438502673796
3	DecisionTreeClassifier	f1	gini	0.8044692737430169
3	DecisionTreeClassifier	f1	entropy	0.8125
3	DecisionTreeClassifier	f1	gini	0.8128342245989305
3	DecisionTreeClassifier	f1	entropy	0.806282722513089
3	DecisionTreeClassifier	f1	gini	0.8108108108108107
3	DecisionTreeClassifier	f1	entropy	0.806282722513089
3	DecisionTreeClassifier	f1	gini	0.8172043010752688
3	DecisionTreeClassifier	f1	entropy	0.7978723404255319
4	DecisionTreeClassifier	f1	gini	0.7582417582417582
4	DecisionTreeClassifier	f1	entropy	0.7666666666666667
4	DecisionTreeClassifier	f1	gini	0.7231638418079096
4	DecisionTreeClassifier	f1	entropy	0.7513812154696133
4	DecisionTreeClassifier	f1	gini	0.7486033519553073
4	DecisionTreeClassifier	f1	entropy	0.7472527472527474
4	DecisionTreeClassifier	f1	gini	0.7231638418079096
4	DecisionTreeClassifier	f1	entropy	0.7344632768361582
5	DecisionTreeClassifier	f1	gini	0.75
5	DecisionTreeClassifier	f1	entropy	0.7513812154696133
5	DecisionTreeClassifier	f1	gini	0.7282608695652175
5	DecisionTreeClassifier	f1	entropy	0.7807486631016043
5	DecisionTreeClassifier	f1	gini	0.7446808510638299
5	DecisionTreeClassifier	f1	entropy	0.7608695652173912
5	DecisionTreeClassifier	f1	gini	0.7675675675675675
5	DecisionTreeClassifier	f1	entropy	0.7650273224043715
6	DecisionTreeClassifier	f1	gini	0.7684210526315789
6	DecisionTreeClassifier	f1	entropy	0.776595744680851
6	DecisionTreeClassifier	f1	gini	0.7553191489361702
6	DecisionTreeClassifier	f1	entropy	0.761904761904762
6	DecisionTreeClassifier	f1	gini	0.7553191489361702
6	DecisionTreeClassifier	f1	entropy	0.7634408602150538
6	DecisionTreeClassifier	f1	gini	0.7322404371584699
6	DecisionTreeClassifier	f1	entropy	0.7553191489361702
7	DecisionTreeClassifier	f1	gini	0.7643979057591621
7	DecisionTreeClassifier	f1	entropy	0.7419354838709676
7	DecisionTreeClassifier	f1	gini	0.776595744680851
7	DecisionTreeClassifier	f1	entropy	0.7471264367816093

7	DecisionTreeClassifier	f1	gini	0.783068783068783
7	DecisionTreeClassifier	f1	entropy	0.7222222222222223
7	DecisionTreeClassifier	f1	gini	0.7724867724867724
7	DecisionTreeClassifier	f1	entropy	0.7999999999999999
8	DecisionTreeClassifier	f1	gini	0.7191011235955056
8	DecisionTreeClassifier	f1	entropy	0.7789473684210526
8	DecisionTreeClassifier	f1	gini	0.7303370786516853
8	DecisionTreeClassifier	f1	entropy	0.7419354838709677
8	DecisionTreeClassifier	f1	gini	0.7150837988826816
8	DecisionTreeClassifier	f1	entropy	0.7486631016042781
8	DecisionTreeClassifier	f1	gini	0.7159090909090909
8	DecisionTreeClassifier	f1	entropy	0.770053475935829
9	DecisionTreeClassifier	f1	gini	0.7938144329896908
9	DecisionTreeClassifier	f1	entropy	0.787878787878788
9	DecisionTreeClassifier	f1	gini	0.77720207253886
9	DecisionTreeClassifier	f1	entropy	0.8020833333333334
9	DecisionTreeClassifier	f1	gini	0.7959183673469389
9	DecisionTreeClassifier	f1	entropy	0.8167539267015708
9	DecisionTreeClassifier	f1	gini	0.8121827411167513
9	DecisionTreeClassifier	f1	entropy	0.7959183673469389
10	DecisionTreeClassifier	f1	gini	0.7868852459016393
10	DecisionTreeClassifier	f1	entropy	0.7826086956521738
10	DecisionTreeClassifier	f1	gini	0.7891891891891891
10	DecisionTreeClassifier	f1	entropy	0.7914438502673796
10	DecisionTreeClassifier	f1	gini	0.7734806629834253
10	DecisionTreeClassifier	f1	entropy	0.8064516129032258
10	DecisionTreeClassifier	f1	gini	0.7912087912087912
10	DecisionTreeClassifier	f1	entropy	0.7934782608695653
11	DecisionTreeClassifier	f1	gini	0.7643979057591621
11	DecisionTreeClassifier	f1	entropy	0.7894736842105263
11	DecisionTreeClassifier	f1	gini	0.7604166666666667
11	DecisionTreeClassifier	f1	entropy	0.7875647668393781
11	DecisionTreeClassifier	f1	gini	0.7684210526315789
11	DecisionTreeClassifier	f1	entropy	0.7853403141361256
11	DecisionTreeClassifier	f1	gini	0.7812500000000001
11	DecisionTreeClassifier	f1	entropy	0.7875647668393781
12	DecisionTreeClassifier	f1	gini	0.7709497206703911
12	DecisionTreeClassifier	f1	entropy	0.8020833333333333
12	DecisionTreeClassifier	f1	gini	0.7888888888888889
12	DecisionTreeClassifier	f1	entropy	0.776595744680851
12	DecisionTreeClassifier	f1	gini	0.7582417582417583
12	DecisionTreeClassifier	f1	entropy	0.7731958762886597
12	DecisionTreeClassifier	f1	gini	0.7634408602150538

12	DecisionTreeClassifier	f1	entropy	0.7872340425531915
13	DecisionTreeClassifier	f1	gini	0.7845303867403314
13	DecisionTreeClassifier	f1	entropy	0.7830687830687831
13	DecisionTreeClassifier	f1	gini	0.7777777777777778
13	DecisionTreeClassifier	f1	entropy	0.7914438502673796
13	DecisionTreeClassifier	f1	gini	0.7709497206703911
13	DecisionTreeClassifier	f1	entropy	0.7849462365591398
13	DecisionTreeClassifier	f1	gini	0.7777777777777778
13	DecisionTreeClassifier	f1	entropy	0.7872340425531914
14	DecisionTreeClassifier	f1	gini	0.8163265306122449
14	DecisionTreeClassifier	f1	entropy	0.8205128205128205
14	DecisionTreeClassifier	f1	gini	0.82
14	DecisionTreeClassifier	f1	entropy	0.8290155440414508
14	DecisionTreeClassifier	f1	gini	0.8163265306122449
14	DecisionTreeClassifier	f1	entropy	0.8102564102564103
14	DecisionTreeClassifier	f1	gini	0.826530612244898
14	DecisionTreeClassifier	f1	entropy	0.8105263157894737
15	DecisionTreeClassifier	f1	gini	0.8105263157894737
15	DecisionTreeClassifier	f1	entropy	0.7391304347826086
15	DecisionTreeClassifier	f1	gini	0.8260869565217392
15	DecisionTreeClassifier	f1	entropy	0.7322404371584699
15	DecisionTreeClassifier	f1	gini	0.7956989247311826
15	DecisionTreeClassifier	f1	entropy	0.7582417582417582
15	DecisionTreeClassifier	f1	gini	0.8085106382978724
15	DecisionTreeClassifier	f1	entropy	0.7624309392265195
16	DecisionTreeClassifier	f1	gini	0.7195767195767198
16	DecisionTreeClassifier	f1	entropy	0.6927374301675977
16	DecisionTreeClassifier	f1	gini	0.7564766839378237
16	DecisionTreeClassifier	f1	entropy	0.7103825136612022
16	DecisionTreeClassifier	f1	gini	0.7564766839378237
16	DecisionTreeClassifier	f1	entropy	0.7071823204419889
16	DecisionTreeClassifier	f1	gini	0.7195767195767198
16	DecisionTreeClassifier	f1	entropy	0.7039106145251397
17	DecisionTreeClassifier	f1	gini	0.7794871794871795
17	DecisionTreeClassifier	f1	entropy	0.7553191489361702
17	DecisionTreeClassifier	f1	gini	0.7857142857142858
17	DecisionTreeClassifier	f1	entropy	0.7486631016042781
17	DecisionTreeClassifier	f1	gini	0.766839378238342
17	DecisionTreeClassifier	f1	entropy	0.7473684210526316
17	DecisionTreeClassifier	f1	gini	0.7897435897435897
17	DecisionTreeClassifier	f1	entropy	0.7379679144385027
18	DecisionTreeClassifier	f1	gini	0.7868852459016393
18	DecisionTreeClassifier	f1	entropy	0.7540983606557377

18	DecisionTreeClassifier	f1	gini	0.7777777777777778
18	DecisionTreeClassifier	f1	entropy	0.7717391304347825
18	DecisionTreeClassifier	f1	gini	0.7888888888888889
18	DecisionTreeClassifier	f1	entropy	0.7717391304347825
18	DecisionTreeClassifier	f1	gini	0.7845303867403314
18	DecisionTreeClassifier	f1	entropy	0.7783783783783783
19	DecisionTreeClassifier	f1	gini	0.7374301675977655
19	DecisionTreeClassifier	f1	entropy	0.7916666666666666
19	DecisionTreeClassifier	f1	gini	0.8021390374331551
19	DecisionTreeClassifier	f1	entropy	0.7894736842105262
19	DecisionTreeClassifier	f1	gini	0.7624309392265195
19	DecisionTreeClassifier	f1	entropy	0.7916666666666666
19	DecisionTreeClassifier	f1	gini	0.7650273224043715
19	DecisionTreeClassifier	f1	entropy	0.7958115183246073
20	DecisionTreeClassifier	f1	gini	0.7759562841530053
20	DecisionTreeClassifier	f1	entropy	0.7608695652173912
20	DecisionTreeClassifier	f1	gini	0.7222222222222223
20	DecisionTreeClassifier	f1	entropy	0.7802197802197802
20	DecisionTreeClassifier	f1	gini	0.7111111111111111
20	DecisionTreeClassifier	f1	entropy	0.7431693989071038
20	DecisionTreeClassifier	f1	gini	0.7513812154696133
20	DecisionTreeClassifier	f1	entropy	0.7513812154696133
21	DecisionTreeClassifier	f1	gini	0.7891891891891892
21	DecisionTreeClassifier	f1	entropy	0.8020304568527918
21	DecisionTreeClassifier	f1	gini	0.7938144329896908
21	DecisionTreeClassifier	f1	entropy	0.806122448979592
21	DecisionTreeClassifier	f1	gini	0.8041237113402062
21	DecisionTreeClassifier	f1	entropy	0.766839378238342
21	DecisionTreeClassifier	f1	gini	0.776595744680851
21	DecisionTreeClassifier	f1	entropy	0.7708333333333333
22	DecisionTreeClassifier	f1	gini	0.7446808510638298
22	DecisionTreeClassifier	f1	entropy	0.7111111111111111
22	DecisionTreeClassifier	f1	gini	0.7368421052631579
22	DecisionTreeClassifier	f1	entropy	0.7222222222222223
22	DecisionTreeClassifier	f1	gini	0.7564766839378237
22	DecisionTreeClassifier	f1	entropy	0.7272727272727273
22	DecisionTreeClassifier	f1	gini	0.7473684210526316
22	DecisionTreeClassifier	f1	entropy	0.7403314917127071
23	DecisionTreeClassifier	f1	gini	0.7582417582417582
23	DecisionTreeClassifier	f1	entropy	0.776595744680851
23	DecisionTreeClassifier	f1	gini	0.7540983606557377
23	DecisionTreeClassifier	f1	entropy	0.768421052631579
23	DecisionTreeClassifier	f1	gini	0.7650273224043715

23	DecisionTreeClassifier	f1	entropy	0.7634408602150536
23	DecisionTreeClassifier	f1	gini	0.7608695652173912
23	DecisionTreeClassifier	f1	entropy	0.7675675675675675
24	DecisionTreeClassifier	f1	gini	0.7486631016042781
24	DecisionTreeClassifier	f1	entropy	0.7472527472527474
24	DecisionTreeClassifier	f1	gini	0.7540983606557377
24	DecisionTreeClassifier	f1	entropy	0.7403314917127072
24	DecisionTreeClassifier	f1	gini	0.7526881720430108
24	DecisionTreeClassifier	f1	entropy	0.7322404371584699
24	DecisionTreeClassifier	f1	gini	0.7526881720430108
24	DecisionTreeClassifier	f1	entropy	0.7472527472527474
25	DecisionTreeClassifier	f1	gini	0.7717391304347825
25	DecisionTreeClassifier	f1	entropy	0.7936507936507936
25	DecisionTreeClassifier	f1	gini	0.75
25	DecisionTreeClassifier	f1	entropy	0.7826086956521738
25	DecisionTreeClassifier	f1	gini	0.7759562841530053
25	DecisionTreeClassifier	f1	entropy	0.8
25	DecisionTreeClassifier	f1	gini	0.7891891891891891
25	DecisionTreeClassifier	f1	entropy	0.7826086956521738

Table 44: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator name	Metric name	n_estimators	Score
1	RandomForestClassifier	accuracy	5	0.6940298507462687
1	RandomForestClassifier	accuracy	5	0.6940298507462687
1	RandomForestClassifier	accuracy	5	0.7611940298507462
1	RandomForestClassifier	accuracy	5	0.6865671641791045
1	RandomForestClassifier	accuracy	50	0.8059701492537313
1	RandomForestClassifier	accuracy	50	0.7611940298507462
1	RandomForestClassifier	accuracy	50	0.7761194029850746
1	RandomForestClassifier	accuracy	50	0.7985074626865671
2	RandomForestClassifier	accuracy	5	0.7089552238805971
2	RandomForestClassifier	accuracy	5	0.7388059701492538
2	RandomForestClassifier	accuracy	5	0.7014925373134329
2	RandomForestClassifier	accuracy	5	0.7313432835820896
2	RandomForestClassifier	accuracy	50	0.7835820895522388
2	RandomForestClassifier	accuracy	50	0.7761194029850746
2	RandomForestClassifier	accuracy	50	0.7835820895522388
2	RandomForestClassifier	accuracy	50	0.746268656716418
3	RandomForestClassifier	accuracy	5	0.7142857142857143
3	RandomForestClassifier	accuracy	5	0.706766917293233

3	RandomForestClassifier	accuracy	5	0.706766917293233
3	RandomForestClassifier	accuracy	5	0.7443609022556391
3	RandomForestClassifier	accuracy	50	0.7443609022556391
3	RandomForestClassifier	accuracy	50	0.7368421052631579
3	RandomForestClassifier	accuracy	50	0.7142857142857143
3	RandomForestClassifier	accuracy	50	0.7593984962406015
4	RandomForestClassifier	accuracy	5	0.7669172932330827
4	RandomForestClassifier	accuracy	5	0.7368421052631579
4	RandomForestClassifier	accuracy	5	0.6766917293233082
4	RandomForestClassifier	accuracy	5	0.7218045112781954
4	RandomForestClassifier	accuracy	50	0.7443609022556391
4	RandomForestClassifier	accuracy	50	0.7518796992481203
4	RandomForestClassifier	accuracy	50	0.7593984962406015
4	RandomForestClassifier	accuracy	50	0.7744360902255639
5	RandomForestClassifier	accuracy	5	0.7218045112781954
5	RandomForestClassifier	accuracy	5	0.706766917293233
5	RandomForestClassifier	accuracy	5	0.7443609022556391
5	RandomForestClassifier	accuracy	5	0.7518796992481203
5	RandomForestClassifier	accuracy	50	0.7593984962406015
5	RandomForestClassifier	accuracy	50	0.7819548872180451
5	RandomForestClassifier	accuracy	50	0.7518796992481203
5	RandomForestClassifier	accuracy	50	0.7819548872180451
6	RandomForestClassifier	accuracy	5	0.7835820895522388
6	RandomForestClassifier	accuracy	5	0.7089552238805971
6	RandomForestClassifier	accuracy	5	0.7238805970149254
6	RandomForestClassifier	accuracy	5	0.7089552238805971
6	RandomForestClassifier	accuracy	50	0.7686567164179104
6	RandomForestClassifier	accuracy	50	0.7611940298507462
6	RandomForestClassifier	accuracy	50	0.753731343283582
6	RandomForestClassifier	accuracy	50	0.7388059701492538
7	RandomForestClassifier	accuracy	5	0.746268656716418
7	RandomForestClassifier	accuracy	5	0.6791044776119403
7	RandomForestClassifier	accuracy	5	0.6791044776119403
7	RandomForestClassifier	accuracy	5	0.7164179104477612
7	RandomForestClassifier	accuracy	50	0.7313432835820896
7	RandomForestClassifier	accuracy	50	0.7985074626865671
7	RandomForestClassifier	accuracy	50	0.7835820895522388
7	RandomForestClassifier	accuracy	50	0.7761194029850746
8	RandomForestClassifier	accuracy	5	0.7293233082706767
8	RandomForestClassifier	accuracy	5	0.706766917293233
8	RandomForestClassifier	accuracy	5	0.706766917293233
8	RandomForestClassifier	accuracy	5	0.6917293233082706
8	RandomForestClassifier	accuracy	50	0.7518796992481203

8	RandomForestClassifier	accuracy	50	0.7819548872180451
8	RandomForestClassifier	accuracy	50	0.7593984962406015
8	RandomForestClassifier	accuracy	50	0.7518796992481203
9	RandomForestClassifier	accuracy	5	0.6842105263157895
9	RandomForestClassifier	accuracy	5	0.7218045112781954
9	RandomForestClassifier	accuracy	5	0.6842105263157895
9	RandomForestClassifier	accuracy	5	0.7142857142857143
9	RandomForestClassifier	accuracy	50	0.7443609022556391
9	RandomForestClassifier	accuracy	50	0.7518796992481203
9	RandomForestClassifier	accuracy	50	0.7669172932330827
9	RandomForestClassifier	accuracy	50	0.7518796992481203
10	RandomForestClassifier	accuracy	5	0.6917293233082706
10	RandomForestClassifier	accuracy	5	0.6766917293233082
10	RandomForestClassifier	accuracy	5	0.6917293233082706
10	RandomForestClassifier	accuracy	5	0.6917293233082706
10	RandomForestClassifier	accuracy	50	0.7518796992481203
10	RandomForestClassifier	accuracy	50	0.7593984962406015
10	RandomForestClassifier	accuracy	50	0.7368421052631579
10	RandomForestClassifier	accuracy	50	0.7518796992481203
11	RandomForestClassifier	accuracy	5	0.7238805970149254
11	RandomForestClassifier	accuracy	5	0.7313432835820896
11	RandomForestClassifier	accuracy	5	0.7164179104477612
11	RandomForestClassifier	accuracy	5	0.7835820895522388
11	RandomForestClassifier	accuracy	50	0.7238805970149254
11	RandomForestClassifier	accuracy	50	0.7835820895522388
11	RandomForestClassifier	accuracy	50	0.7761194029850746
11	RandomForestClassifier	accuracy	50	0.7985074626865671
12	RandomForestClassifier	accuracy	5	0.7014925373134329
12	RandomForestClassifier	accuracy	5	0.7388059701492538
12	RandomForestClassifier	accuracy	5	0.6791044776119403
12	RandomForestClassifier	accuracy	5	0.7164179104477612
12	RandomForestClassifier	accuracy	50	0.7686567164179104
12	RandomForestClassifier	accuracy	50	0.7985074626865671
12	RandomForestClassifier	accuracy	50	0.7611940298507462
12	RandomForestClassifier	accuracy	50	0.7835820895522388
13	RandomForestClassifier	accuracy	5	0.7443609022556391
13	RandomForestClassifier	accuracy	5	0.7894736842105263
13	RandomForestClassifier	accuracy	5	0.6842105263157895
13	RandomForestClassifier	accuracy	5	0.6842105263157895
13	RandomForestClassifier	accuracy	50	0.7894736842105263
13	RandomForestClassifier	accuracy	50	0.7894736842105263
13	RandomForestClassifier	accuracy	50	0.7669172932330827
13	RandomForestClassifier	accuracy	50	0.7819548872180451

14	RandomForestClassifier	accuracy	5	0.6541353383458647
14	RandomForestClassifier	accuracy	5	0.7293233082706767
14	RandomForestClassifier	accuracy	5	0.6992481203007519
14	RandomForestClassifier	accuracy	5	0.6992481203007519
14	RandomForestClassifier	accuracy	50	0.7443609022556391
14	RandomForestClassifier	accuracy	50	0.7518796992481203
14	RandomForestClassifier	accuracy	50	0.7443609022556391
14	RandomForestClassifier	accuracy	50	0.7669172932330827
15	RandomForestClassifier	accuracy	5	0.706766917293233
15	RandomForestClassifier	accuracy	5	0.7368421052631579
15	RandomForestClassifier	accuracy	5	0.631578947368421
15	RandomForestClassifier	accuracy	5	0.6466165413533834
15	RandomForestClassifier	accuracy	50	0.7368421052631579
15	RandomForestClassifier	accuracy	50	0.7293233082706767
15	RandomForestClassifier	accuracy	50	0.7368421052631579
15	RandomForestClassifier	accuracy	50	0.7368421052631579
16	RandomForestClassifier	accuracy	5	0.7835820895522388
16	RandomForestClassifier	accuracy	5	0.7686567164179104
16	RandomForestClassifier	accuracy	5	0.7388059701492538
16	RandomForestClassifier	accuracy	5	0.7014925373134329
16	RandomForestClassifier	accuracy	50	0.746268656716418
16	RandomForestClassifier	accuracy	50	0.7686567164179104
16	RandomForestClassifier	accuracy	50	0.7611940298507462
16	RandomForestClassifier	accuracy	50	0.7835820895522388
17	RandomForestClassifier	accuracy	5	0.7089552238805971
17	RandomForestClassifier	accuracy	5	0.6865671641791045
17	RandomForestClassifier	accuracy	5	0.746268656716418
17	RandomForestClassifier	accuracy	5	0.7238805970149254
17	RandomForestClassifier	accuracy	50	0.7313432835820896
17	RandomForestClassifier	accuracy	50	0.7686567164179104
17	RandomForestClassifier	accuracy	50	0.7686567164179104
17	RandomForestClassifier	accuracy	50	0.7611940298507462
18	RandomForestClassifier	accuracy	5	0.6766917293233082
18	RandomForestClassifier	accuracy	5	0.6842105263157895
18	RandomForestClassifier	accuracy	5	0.706766917293233
18	RandomForestClassifier	accuracy	5	0.7218045112781954
18	RandomForestClassifier	accuracy	50	0.8120300751879699
18	RandomForestClassifier	accuracy	50	0.7819548872180451
18	RandomForestClassifier	accuracy	50	0.7368421052631579
18	RandomForestClassifier	accuracy	50	0.7894736842105263
19	RandomForestClassifier	accuracy	5	0.6390977443609023
19	RandomForestClassifier	accuracy	5	0.6842105263157895
19	RandomForestClassifier	accuracy	5	0.7368421052631579

19	RandomForestClassifier	accuracy	5	0.706766917293233
19	RandomForestClassifier	accuracy	50	0.706766917293233
19	RandomForestClassifier	accuracy	50	0.6842105263157895
19	RandomForestClassifier	accuracy	50	0.7593984962406015
19	RandomForestClassifier	accuracy	50	0.706766917293233
20	RandomForestClassifier	accuracy	5	0.7969924812030075
20	RandomForestClassifier	accuracy	5	0.7518796992481203
20	RandomForestClassifier	accuracy	5	0.7218045112781954
20	RandomForestClassifier	accuracy	5	0.6917293233082706
20	RandomForestClassifier	accuracy	50	0.7368421052631579
20	RandomForestClassifier	accuracy	50	0.7819548872180451
20	RandomForestClassifier	accuracy	50	0.7368421052631579
20	RandomForestClassifier	accuracy	50	0.7518796992481203
21	RandomForestClassifier	accuracy	5	0.7014925373134329
21	RandomForestClassifier	accuracy	5	0.6194029850746269
21	RandomForestClassifier	accuracy	5	0.6567164179104478
21	RandomForestClassifier	accuracy	5	0.6716417910447762
21	RandomForestClassifier	accuracy	50	0.7761194029850746
21	RandomForestClassifier	accuracy	50	0.7761194029850746
21	RandomForestClassifier	accuracy	50	0.7611940298507462
21	RandomForestClassifier	accuracy	50	0.753731343283582
22	RandomForestClassifier	accuracy	5	0.7611940298507462
22	RandomForestClassifier	accuracy	5	0.7238805970149254
22	RandomForestClassifier	accuracy	5	0.7761194029850746
22	RandomForestClassifier	accuracy	5	0.7686567164179104
22	RandomForestClassifier	accuracy	50	0.8134328358208955
22	RandomForestClassifier	accuracy	50	0.7910447761194029
22	RandomForestClassifier	accuracy	50	0.7835820895522388
22	RandomForestClassifier	accuracy	50	0.8059701492537313
23	RandomForestClassifier	accuracy	5	0.7293233082706767
23	RandomForestClassifier	accuracy	5	0.6917293233082706
23	RandomForestClassifier	accuracy	5	0.706766917293233
23	RandomForestClassifier	accuracy	5	0.7443609022556391
23	RandomForestClassifier	accuracy	50	0.7744360902255639
23	RandomForestClassifier	accuracy	50	0.7518796992481203
23	RandomForestClassifier	accuracy	50	0.7518796992481203
23	RandomForestClassifier	accuracy	50	0.7593984962406015
24	RandomForestClassifier	accuracy	5	0.6240601503759399
24	RandomForestClassifier	accuracy	5	0.6917293233082706
24	RandomForestClassifier	accuracy	5	0.6766917293233082
24	RandomForestClassifier	accuracy	5	0.6842105263157895
24	RandomForestClassifier	accuracy	50	0.7669172932330827
24	RandomForestClassifier	accuracy	50	0.7744360902255639

24	RandomForestClassifier	accuracy	50	0.7819548872180451
24	RandomForestClassifier	accuracy	50	0.7669172932330827
25	RandomForestClassifier	accuracy	5	0.7293233082706767
25	RandomForestClassifier	accuracy	5	0.7293233082706767
25	RandomForestClassifier	accuracy	5	0.7969924812030075
25	RandomForestClassifier	accuracy	5	0.7969924812030075
25	RandomForestClassifier	accuracy	50	0.8045112781954887
25	RandomForestClassifier	accuracy	50	0.7819548872180451
25	RandomForestClassifier	accuracy	50	0.7969924812030075
25	RandomForestClassifier	accuracy	50	0.7744360902255639
1	RandomForestClassifier	f1	5	0.7875647668393781
1	RandomForestClassifier	f1	5	0.783068783068783
1	RandomForestClassifier	f1	5	0.8383838383838383
1	RandomForestClassifier	f1	5	0.7835051546391754
1	RandomForestClassifier	f1	50	0.8700000000000001
1	RandomForestClassifier	f1	50	0.8383838383838383
1	RandomForestClassifier	f1	50	0.8484848484848485
1	RandomForestClassifier	f1	50	0.8656716417910447
2	RandomForestClassifier	f1	5	0.8133971291866029
2	RandomForestClassifier	f1	5	0.8223350253807107
2	RandomForestClassifier	f1	5	0.8
2	RandomForestClassifier	f1	5	0.8163265306122448
2	RandomForestClassifier	f1	50	0.8585365853658538
2	RandomForestClassifier	f1	50	0.8557692307692308
2	RandomForestClassifier	f1	50	0.8557213930348259
2	RandomForestClassifier	f1	50	0.8380952380952381
3	RandomForestClassifier	f1	5	0.8080808080808081
3	RandomForestClassifier	f1	5	0.8040201005025127
3	RandomForestClassifier	f1	5	0.8040201005025127
3	RandomForestClassifier	f1	5	0.83
3	RandomForestClassifier	f1	50	0.8333333333333334
3	RandomForestClassifier	f1	50	0.832535885167464
3	RandomForestClassifier	f1	50	0.8137254901960784
3	RandomForestClassifier	f1	50	0.8461538461538463
4	RandomForestClassifier	f1	5	0.8472906403940887
4	RandomForestClassifier	f1	5	0.8275862068965516
4	RandomForestClassifier	f1	5	0.77720207253886
4	RandomForestClassifier	f1	5	0.8042328042328043
4	RandomForestClassifier	f1	50	0.8316831683168318
4	RandomForestClassifier	f1	50	0.8405797101449276
4	RandomForestClassifier	f1	50	0.8446601941747574
4	RandomForestClassifier	f1	50	0.8529411764705881
5	RandomForestClassifier	f1	5	0.8159203980099504

5	RandomForestClassifier	f1	5	0.8040201005025127
5	RandomForestClassifier	f1	5	0.8316831683168318
5	RandomForestClassifier	f1	5	0.83248730964467
5	RandomForestClassifier	f1	50	0.8415841584158414
5	RandomForestClassifier	f1	50	0.8599033816425121
5	RandomForestClassifier	f1	50	0.8374384236453202
5	RandomForestClassifier	f1	50	0.8542713567839196
6	RandomForestClassifier	f1	5	0.8542713567839195
6	RandomForestClassifier	f1	5	0.8115942028985508
6	RandomForestClassifier	f1	5	0.8121827411167513
6	RandomForestClassifier	f1	5	0.8040201005025126
6	RandomForestClassifier	f1	50	0.8516746411483255
6	RandomForestClassifier	f1	50	0.8446601941747574
6	RandomForestClassifier	f1	50	0.8405797101449276
6	RandomForestClassifier	f1	50	0.8309178743961352
7	RandomForestClassifier	f1	5	0.8300000000000001
7	RandomForestClassifier	f1	5	0.7839195979899497
7	RandomForestClassifier	f1	5	0.7860696517412935
7	RandomForestClassifier	f1	5	0.8118811881188118
7	RandomForestClassifier	f1	50	0.8200000000000001
7	RandomForestClassifier	f1	50	0.8682926829268293
7	RandomForestClassifier	f1	50	0.859903381642512
7	RandomForestClassifier	f1	50	0.8500000000000001
8	RandomForestClassifier	f1	5	0.8105263157894737
8	RandomForestClassifier	f1	5	0.7958115183246073
8	RandomForestClassifier	f1	5	0.7999999999999999
8	RandomForestClassifier	f1	5	0.7897435897435897
8	RandomForestClassifier	f1	50	0.8272251308900525
8	RandomForestClassifier	f1	50	0.8571428571428572
8	RandomForestClassifier	f1	50	0.84
8	RandomForestClassifier	f1	50	0.8307692307692308
9	RandomForestClassifier	f1	5	0.787878787878788
9	RandomForestClassifier	f1	5	0.8140703517587939
9	RandomForestClassifier	f1	5	0.7835051546391754
9	RandomForestClassifier	f1	5	0.8080808080808081
9	RandomForestClassifier	f1	50	0.83
9	RandomForestClassifier	f1	50	0.8374384236453202
9	RandomForestClassifier	f1	50	0.8472906403940887
9	RandomForestClassifier	f1	50	0.8374384236453202
10	RandomForestClassifier	f1	5	0.7939698492462313
10	RandomForestClassifier	f1	5	0.7817258883248731
10	RandomForestClassifier	f1	5	0.7980295566502462
10	RandomForestClassifier	f1	5	0.7875647668393783

10	RandomForestClassifier	f1	50	0.8374384236453202
10	RandomForestClassifier	f1	50	0.8446601941747574
10	RandomForestClassifier	f1	50	0.8241206030150753
10	RandomForestClassifier	f1	50	0.8390243902439024
11	RandomForestClassifier	f1	5	0.8082901554404145
11	RandomForestClassifier	f1	5	0.8217821782178217
11	RandomForestClassifier	f1	5	0.8041237113402062
11	RandomForestClassifier	f1	5	0.852791878172589
11	RandomForestClassifier	f1	50	0.8159203980099503
11	RandomForestClassifier	f1	50	0.8585365853658538
11	RandomForestClassifier	f1	50	0.8500000000000001
11	RandomForestClassifier	f1	50	0.8682926829268293
12	RandomForestClassifier	f1	5	0.7979797979797979
12	RandomForestClassifier	f1	5	0.8223350253807107
12	RandomForestClassifier	f1	5	0.7839195979899497
12	RandomForestClassifier	f1	5	0.806122448979592
12	RandomForestClassifier	f1	50	0.8472906403940887
12	RandomForestClassifier	f1	50	0.8695652173913044
12	RandomForestClassifier	f1	50	0.8446601941747574
12	RandomForestClassifier	f1	50	0.8585365853658538
13	RandomForestClassifier	f1	5	0.8247422680412373
13	RandomForestClassifier	f1	5	0.8571428571428571
13	RandomForestClassifier	f1	5	0.7789473684210526
13	RandomForestClassifier	f1	5	0.7835051546391754
13	RandomForestClassifier	f1	50	0.8585858585858587
13	RandomForestClassifier	f1	50	0.8613861386138614
13	RandomForestClassifier	f1	50	0.8457711442786069
13	RandomForestClassifier	f1	50	0.8557213930348259
14	RandomForestClassifier	f1	5	0.77
14	RandomForestClassifier	f1	5	0.8181818181818182
14	RandomForestClassifier	f1	5	0.7979797979797979
14	RandomForestClassifier	f1	5	0.7916666666666666
14	RandomForestClassifier	f1	50	0.8349514563106796
14	RandomForestClassifier	f1	50	0.8405797101449276
14	RandomForestClassifier	f1	50	0.8316831683168318
14	RandomForestClassifier	f1	50	0.8457711442786069
15	RandomForestClassifier	f1	5	0.7999999999999999
15	RandomForestClassifier	f1	5	0.8275862068965516
15	RandomForestClassifier	f1	5	0.751269035532995
15	RandomForestClassifier	f1	5	0.7564766839378239
15	RandomForestClassifier	f1	50	0.8292682926829268
15	RandomForestClassifier	f1	50	0.8217821782178217
15	RandomForestClassifier	f1	50	0.832535885167464

15	RandomForestClassifier	f1	50	0.8292682926829268
16	RandomForestClassifier	f1	5	0.8557213930348259
16	RandomForestClassifier	f1	5	0.841025641025641
16	RandomForestClassifier	f1	5	0.8241206030150755
16	RandomForestClassifier	f1	5	0.7979797979797979
16	RandomForestClassifier	f1	50	0.8365384615384615
16	RandomForestClassifier	f1	50	0.848780487804878
16	RandomForestClassifier	f1	50	0.8446601941747574
16	RandomForestClassifier	f1	50	0.8571428571428571
17	RandomForestClassifier	f1	5	0.7958115183246073
17	RandomForestClassifier	f1	5	0.787878787878788
17	RandomForestClassifier	f1	5	0.8229166666666666
17	RandomForestClassifier	f1	5	0.8021390374331551
17	RandomForestClassifier	f1	50	0.8235294117647058
17	RandomForestClassifier	f1	50	0.848780487804878
17	RandomForestClassifier	f1	50	0.845771144278607
17	RandomForestClassifier	f1	50	0.8383838383838383
18	RandomForestClassifier	f1	5	0.7724867724867724
18	RandomForestClassifier	f1	5	0.776595744680851
18	RandomForestClassifier	f1	5	0.8020304568527918
18	RandomForestClassifier	f1	5	0.8082901554404146
18	RandomForestClassifier	f1	50	0.8743718592964823
18	RandomForestClassifier	f1	50	0.852791878172589
18	RandomForestClassifier	f1	50	0.8258706467661692
18	RandomForestClassifier	f1	50	0.8585858585858587
19	RandomForestClassifier	f1	5	0.7473684210526316
19	RandomForestClassifier	f1	5	0.787878787878788
19	RandomForestClassifier	f1	5	0.8223350253807107
19	RandomForestClassifier	f1	5	0.8020304568527918
19	RandomForestClassifier	f1	50	0.7999999999999999
19	RandomForestClassifier	f1	50	0.7857142857142857
19	RandomForestClassifier	f1	50	0.8446601941747574
19	RandomForestClassifier	f1	50	0.8020304568527918
20	RandomForestClassifier	f1	5	0.8643216080402009
20	RandomForestClassifier	f1	5	0.8341708542713568
20	RandomForestClassifier	f1	5	0.8159203980099504
20	RandomForestClassifier	f1	5	0.7960199004975125
20	RandomForestClassifier	f1	50	0.8223350253807107
20	RandomForestClassifier	f1	50	0.8585365853658538
20	RandomForestClassifier	f1	50	0.8292682926829268
20	RandomForestClassifier	f1	50	0.8405797101449276
21	RandomForestClassifier	f1	5	0.803921568627451
21	RandomForestClassifier	f1	5	0.7411167512690355

21	RandomForestClassifier	f1	5	0.75
21	RandomForestClassifier	f1	5	0.7634408602150538
21	RandomForestClassifier	f1	50	0.8500000000000001
21	RandomForestClassifier	f1	50	0.846938775510204
21	RandomForestClassifier	f1	50	0.8333333333333334
21	RandomForestClassifier	f1	50	0.8374384236453202
22	RandomForestClassifier	f1	5	0.8367346938775511
22	RandomForestClassifier	f1	5	0.8229665071770335
22	RandomForestClassifier	f1	5	0.8529411764705882
22	RandomForestClassifier	f1	5	0.841025641025641
22	RandomForestClassifier	f1	50	0.8826291079812207
22	RandomForestClassifier	f1	50	0.8679245283018868
22	RandomForestClassifier	f1	50	0.861244019138756
22	RandomForestClassifier	f1	50	0.875
23	RandomForestClassifier	f1	5	0.8181818181818182
23	RandomForestClassifier	f1	5	0.8019323671497586
23	RandomForestClassifier	f1	5	0.8078817733990148
23	RandomForestClassifier	f1	5	0.8247422680412373
23	RandomForestClassifier	f1	50	0.8557692307692307
23	RandomForestClassifier	f1	50	0.8405797101449276
23	RandomForestClassifier	f1	50	0.8405797101449276
23	RandomForestClassifier	f1	50	0.8446601941747574
24	RandomForestClassifier	f1	5	0.7395833333333334
24	RandomForestClassifier	f1	5	0.7853403141361257
24	RandomForestClassifier	f1	5	0.770053475935829
24	RandomForestClassifier	f1	5	0.7812499999999999
24	RandomForestClassifier	f1	50	0.837696335078534
24	RandomForestClassifier	f1	50	0.845360824742268
24	RandomForestClassifier	f1	50	0.8542713567839196
24	RandomForestClassifier	f1	50	0.8442211055276382
25	RandomForestClassifier	f1	5	0.8125
25	RandomForestClassifier	f1	5	0.8163265306122449
25	RandomForestClassifier	f1	5	0.8586387434554974
25	RandomForestClassifier	f1	5	0.8601036269430051
25	RandomForestClassifier	f1	50	0.8645833333333334
25	RandomForestClassifier	f1	50	0.8542713567839196
25	RandomForestClassifier	f1	50	0.8615384615384616
25	RandomForestClassifier	f1	50	0.845360824742268

Table 45: Results for each split in the inner loop for each metric for RandomForestClassifier

Split number	Estimator name	Metric name	kernel	Score
1	SVC	accuracy	linear	0.7388059701492538
1	SVC	accuracy	linear	0.7388059701492538
1	SVC	accuracy	rbf	0.7686567164179104
1	SVC	accuracy	rbf	0.7686567164179104
1	SVC	accuracy	linear	0.7388059701492538
1	SVC	accuracy	linear	0.7388059701492538
1	SVC	accuracy	rbf	0.7686567164179104
1	SVC	accuracy	rbf	0.7686567164179104
2	SVC	accuracy	linear	0.746268656716418
2	SVC	accuracy	linear	0.746268656716418
2	SVC	accuracy	rbf	0.7611940298507462
2	SVC	accuracy	rbf	0.7611940298507462
2	SVC	accuracy	linear	0.746268656716418
2	SVC	accuracy	linear	0.746268656716418
2	SVC	accuracy	rbf	0.7611940298507462
2	SVC	accuracy	rbf	0.7611940298507462
3	SVC	accuracy	linear	0.7368421052631579
3	SVC	accuracy	linear	0.7368421052631579
3	SVC	accuracy	rbf	0.7593984962406015
3	SVC	accuracy	rbf	0.7593984962406015
3	SVC	accuracy	linear	0.7368421052631579
3	SVC	accuracy	linear	0.7368421052631579
3	SVC	accuracy	rbf	0.7593984962406015
3	SVC	accuracy	rbf	0.7593984962406015
4	SVC	accuracy	linear	0.7744360902255639
4	SVC	accuracy	linear	0.7744360902255639
4	SVC	accuracy	rbf	0.7518796992481203
4	SVC	accuracy	rbf	0.7518796992481203
4	SVC	accuracy	linear	0.7744360902255639
4	SVC	accuracy	linear	0.7744360902255639
4	SVC	accuracy	rbf	0.7518796992481203
4	SVC	accuracy	rbf	0.7518796992481203
5	SVC	accuracy	linear	0.7293233082706767
5	SVC	accuracy	linear	0.7293233082706767
5	SVC	accuracy	rbf	0.7518796992481203
5	SVC	accuracy	rbf	0.7518796992481203
5	SVC	accuracy	linear	0.7293233082706767
5	SVC	accuracy	linear	0.7293233082706767
5	SVC	accuracy	rbf	0.7518796992481203
5	SVC	accuracy	rbf	0.7518796992481203
6	SVC	accuracy	linear	0.7910447761194029
6	SVC	accuracy	linear	0.7910447761194029

6	SVC	accuracy	rbf	0.7388059701492538
6	SVC	accuracy	rbf	0.7388059701492538
6	SVC	accuracy	linear	0.7910447761194029
6	SVC	accuracy	linear	0.7910447761194029
6	SVC	accuracy	rbf	0.7388059701492538
6	SVC	accuracy	rbf	0.7388059701492538
7	SVC	accuracy	linear	0.7388059701492538
7	SVC	accuracy	linear	0.7388059701492538
7	SVC	accuracy	rbf	0.7611940298507462
7	SVC	accuracy	rbf	0.7611940298507462
7	SVC	accuracy	linear	0.7388059701492538
7	SVC	accuracy	linear	0.7388059701492538
7	SVC	accuracy	rbf	0.7611940298507462
7	SVC	accuracy	rbf	0.7611940298507462
8	SVC	accuracy	linear	0.6917293233082706
8	SVC	accuracy	linear	0.6917293233082706
8	SVC	accuracy	rbf	0.7443609022556391
8	SVC	accuracy	rbf	0.7443609022556391
8	SVC	accuracy	linear	0.6917293233082706
8	SVC	accuracy	linear	0.6917293233082706
8	SVC	accuracy	rbf	0.7443609022556391
8	SVC	accuracy	rbf	0.7443609022556391
9	SVC	accuracy	linear	0.7894736842105263
9	SVC	accuracy	linear	0.7894736842105263
9	SVC	accuracy	rbf	0.7593984962406015
9	SVC	accuracy	rbf	0.7593984962406015
9	SVC	accuracy	linear	0.7894736842105263
9	SVC	accuracy	linear	0.7894736842105263
9	SVC	accuracy	rbf	0.7593984962406015
9	SVC	accuracy	rbf	0.7593984962406015
10	SVC	accuracy	linear	0.7518796992481203
10	SVC	accuracy	linear	0.7518796992481203
10	SVC	accuracy	rbf	0.7593984962406015
10	SVC	accuracy	rbf	0.7593984962406015
10	SVC	accuracy	linear	0.7518796992481203
10	SVC	accuracy	linear	0.7518796992481203
10	SVC	accuracy	rbf	0.7593984962406015
10	SVC	accuracy	rbf	0.7593984962406015
11	SVC	accuracy	linear	0.7761194029850746
11	SVC	accuracy	linear	0.7761194029850746
11	SVC	accuracy	rbf	0.7313432835820896
11	SVC	accuracy	rbf	0.7313432835820896
11	SVC	accuracy	linear	0.7761194029850746

11	SVC	accuracy	linear	0.7761194029850746
11	SVC	accuracy	rbf	0.7313432835820896
11	SVC	accuracy	rbf	0.7313432835820896
12	SVC	accuracy	linear	0.753731343283582
12	SVC	accuracy	linear	0.753731343283582
12	SVC	accuracy	rbf	0.7238805970149254
12	SVC	accuracy	rbf	0.7238805970149254
12	SVC	accuracy	linear	0.753731343283582
12	SVC	accuracy	linear	0.753731343283582
12	SVC	accuracy	rbf	0.7238805970149254
12	SVC	accuracy	rbf	0.7238805970149254
13	SVC	accuracy	linear	0.8045112781954887
13	SVC	accuracy	linear	0.8045112781954887
13	SVC	accuracy	rbf	0.7894736842105263
13	SVC	accuracy	rbf	0.7894736842105263
13	SVC	accuracy	linear	0.8045112781954887
13	SVC	accuracy	linear	0.8045112781954887
13	SVC	accuracy	rbf	0.7894736842105263
13	SVC	accuracy	rbf	0.7894736842105263
14	SVC	accuracy	linear	0.7443609022556391
14	SVC	accuracy	linear	0.7443609022556391
14	SVC	accuracy	rbf	0.7969924812030075
14	SVC	accuracy	rbf	0.7969924812030075
14	SVC	accuracy	linear	0.7443609022556391
14	SVC	accuracy	linear	0.7443609022556391
14	SVC	accuracy	rbf	0.7969924812030075
14	SVC	accuracy	rbf	0.7969924812030075
15	SVC	accuracy	linear	0.6842105263157895
15	SVC	accuracy	linear	0.6842105263157895
15	SVC	accuracy	rbf	0.7368421052631579
15	SVC	accuracy	rbf	0.7368421052631579
15	SVC	accuracy	linear	0.6842105263157895
15	SVC	accuracy	linear	0.6842105263157895
15	SVC	accuracy	rbf	0.7368421052631579
15	SVC	accuracy	rbf	0.7368421052631579
16	SVC	accuracy	linear	0.7761194029850746
16	SVC	accuracy	linear	0.7761194029850746
16	SVC	accuracy	rbf	0.7611940298507462
16	SVC	accuracy	rbf	0.7611940298507462
16	SVC	accuracy	linear	0.7761194029850746
16	SVC	accuracy	linear	0.7761194029850746
16	SVC	accuracy	rbf	0.7611940298507462
16	SVC	accuracy	rbf	0.7611940298507462

17	SVC	accuracy	linear	0.7686567164179104
17	SVC	accuracy	linear	0.7686567164179104
17	SVC	accuracy	rbf	0.7761194029850746
17	SVC	accuracy	rbf	0.7761194029850746
17	SVC	accuracy	linear	0.7686567164179104
17	SVC	accuracy	linear	0.7686567164179104
17	SVC	accuracy	rbf	0.7761194029850746
17	SVC	accuracy	rbf	0.7761194029850746
18	SVC	accuracy	linear	0.8045112781954887
18	SVC	accuracy	linear	0.8045112781954887
18	SVC	accuracy	rbf	0.7443609022556391
18	SVC	accuracy	rbf	0.7443609022556391
18	SVC	accuracy	linear	0.8045112781954887
18	SVC	accuracy	linear	0.8045112781954887
18	SVC	accuracy	rbf	0.7443609022556391
18	SVC	accuracy	rbf	0.7443609022556391
19	SVC	accuracy	linear	0.6842105263157895
19	SVC	accuracy	linear	0.6842105263157895
19	SVC	accuracy	rbf	0.7368421052631579
19	SVC	accuracy	rbf	0.7368421052631579
19	SVC	accuracy	linear	0.6842105263157895
19	SVC	accuracy	linear	0.6842105263157895
19	SVC	accuracy	rbf	0.7368421052631579
19	SVC	accuracy	rbf	0.7368421052631579
20	SVC	accuracy	linear	0.7744360902255639
20	SVC	accuracy	linear	0.7744360902255639
20	SVC	accuracy	rbf	0.7819548872180451
20	SVC	accuracy	rbf	0.7819548872180451
20	SVC	accuracy	linear	0.7744360902255639
20	SVC	accuracy	linear	0.7744360902255639
20	SVC	accuracy	rbf	0.7819548872180451
20	SVC	accuracy	rbf	0.7819548872180451
21	SVC	accuracy	linear	0.6791044776119403
21	SVC	accuracy	linear	0.6791044776119403
21	SVC	accuracy	rbf	0.746268656716418
21	SVC	accuracy	rbf	0.746268656716418
21	SVC	accuracy	linear	0.6791044776119403
21	SVC	accuracy	linear	0.6791044776119403
21	SVC	accuracy	rbf	0.746268656716418
21	SVC	accuracy	rbf	0.746268656716418
22	SVC	accuracy	linear	0.8208955223880597
22	SVC	accuracy	linear	0.8208955223880597
22	SVC	accuracy	rbf	0.7611940298507462

22	SVC	accuracy	rbf	0.7611940298507462
22	SVC	accuracy	linear	0.8208955223880597
22	SVC	accuracy	linear	0.8208955223880597
22	SVC	accuracy	rbf	0.7611940298507462
22	SVC	accuracy	rbf	0.7611940298507462
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	rbf	0.7293233082706767
23	SVC	accuracy	rbf	0.7293233082706767
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	linear	0.7293233082706767
23	SVC	accuracy	rbf	0.7293233082706767
23	SVC	accuracy	rbf	0.7293233082706767
24	SVC	accuracy	linear	0.7593984962406015
24	SVC	accuracy	linear	0.7593984962406015
24	SVC	accuracy	rbf	0.7969924812030075
24	SVC	accuracy	rbf	0.7969924812030075
24	SVC	accuracy	linear	0.7593984962406015
24	SVC	accuracy	linear	0.7593984962406015
24	SVC	accuracy	rbf	0.7969924812030075
24	SVC	accuracy	rbf	0.7969924812030075
25	SVC	accuracy	linear	0.7819548872180451
25	SVC	accuracy	linear	0.7819548872180451
25	SVC	accuracy	rbf	0.7518796992481203
25	SVC	accuracy	rbf	0.7518796992481203
25	SVC	accuracy	linear	0.7819548872180451
25	SVC	accuracy	linear	0.7819548872180451
25	SVC	accuracy	rbf	0.7518796992481203
25	SVC	accuracy	rbf	0.7518796992481203
1	SVC	f1	linear	0.8205128205128204
1	SVC	f1	linear	0.8205128205128204
1	SVC	f1	rbf	0.845771144278607
1	SVC	f1	rbf	0.845771144278607
1	SVC	f1	linear	0.8205128205128204
1	SVC	f1	linear	0.8205128205128204
1	SVC	f1	rbf	0.845771144278607
1	SVC	f1	rbf	0.845771144278607
2	SVC	f1	linear	0.8300000000000001
2	SVC	f1	linear	0.8300000000000001
2	SVC	f1	rbf	0.8446601941747574
2	SVC	f1	rbf	0.8446601941747574
2	SVC	f1	linear	0.8300000000000001
2	SVC	f1	linear	0.8300000000000001

2	SVC	f1	rbf	0.8446601941747574
2	SVC	f1	rbf	0.8446601941747574
3	SVC	f1	linear	0.8223350253807107
3	SVC	f1	linear	0.8223350253807107
3	SVC	f1	rbf	0.8446601941747574
3	SVC	f1	rbf	0.8446601941747574
3	SVC	f1	linear	0.8223350253807107
3	SVC	f1	linear	0.8223350253807107
3	SVC	f1	rbf	0.8446601941747574
3	SVC	f1	rbf	0.8446601941747574
4	SVC	f1	linear	0.846938775510204
4	SVC	f1	linear	0.846938775510204
4	SVC	f1	rbf	0.8374384236453202
4	SVC	f1	rbf	0.8374384236453202
4	SVC	f1	linear	0.846938775510204
4	SVC	f1	linear	0.846938775510204
4	SVC	f1	rbf	0.8374384236453202
4	SVC	f1	rbf	0.8374384236453202
5	SVC	f1	linear	0.8105263157894737
5	SVC	f1	linear	0.8105263157894737
5	SVC	f1	rbf	0.835820895522388
5	SVC	f1	rbf	0.835820895522388
5	SVC	f1	linear	0.8105263157894737
5	SVC	f1	linear	0.8105263157894737
5	SVC	f1	rbf	0.835820895522388
5	SVC	f1	rbf	0.835820895522388
6	SVC	f1	linear	0.8600000000000001
6	SVC	f1	linear	0.8600000000000001
6	SVC	f1	rbf	0.8325358851674641
6	SVC	f1	rbf	0.8325358851674641
6	SVC	f1	linear	0.8600000000000001
6	SVC	f1	linear	0.8600000000000001
6	SVC	f1	rbf	0.8325358851674641
6	SVC	f1	rbf	0.8325358851674641
7	SVC	f1	linear	0.8148148148148148
7	SVC	f1	linear	0.8148148148148148
7	SVC	f1	rbf	0.8415841584158417
7	SVC	f1	rbf	0.8415841584158417
7	SVC	f1	linear	0.8148148148148148
7	SVC	f1	linear	0.8148148148148148
7	SVC	f1	rbf	0.8415841584158417
7	SVC	f1	rbf	0.8415841584158417
8	SVC	f1	linear	0.7897435897435897

8	SVC	f1	linear	0.7897435897435897
8	SVC	f1	rbf	0.8316831683168318
8	SVC	f1	rbf	0.8316831683168318
8	SVC	f1	linear	0.7897435897435897
8	SVC	f1	linear	0.7897435897435897
8	SVC	f1	rbf	0.8316831683168318
8	SVC	f1	rbf	0.8316831683168318
9	SVC	f1	linear	0.8556701030927835
9	SVC	f1	linear	0.8556701030927835
9	SVC	f1	rbf	0.8431372549019608
9	SVC	f1	rbf	0.8431372549019608
9	SVC	f1	linear	0.8556701030927835
9	SVC	f1	linear	0.8556701030927835
9	SVC	f1	rbf	0.8431372549019608
9	SVC	f1	rbf	0.8431372549019608
10	SVC	f1	linear	0.8307692307692308
10	SVC	f1	linear	0.8307692307692308
10	SVC	f1	rbf	0.8446601941747574
10	SVC	f1	rbf	0.8446601941747574
10	SVC	f1	linear	0.8307692307692308
10	SVC	f1	linear	0.8307692307692308
10	SVC	f1	rbf	0.8446601941747574
10	SVC	f1	rbf	0.8446601941747574
11	SVC	f1	linear	0.8500000000000001
11	SVC	f1	linear	0.8500000000000001
11	SVC	f1	rbf	0.8252427184466019
11	SVC	f1	rbf	0.8252427184466019
11	SVC	f1	linear	0.8500000000000001
11	SVC	f1	linear	0.8500000000000001
11	SVC	f1	rbf	0.8252427184466019
11	SVC	f1	rbf	0.8252427184466019
12	SVC	f1	linear	0.8358208955223881
12	SVC	f1	linear	0.8358208955223881
12	SVC	f1	rbf	0.8262910798122066
12	SVC	f1	rbf	0.8262910798122066
12	SVC	f1	linear	0.8358208955223881
12	SVC	f1	linear	0.8358208955223881
12	SVC	f1	rbf	0.8262910798122066
12	SVC	f1	rbf	0.8262910798122066
13	SVC	f1	linear	0.8673469387755103
13	SVC	f1	linear	0.8673469387755103
13	SVC	f1	rbf	0.8653846153846155
13	SVC	f1	rbf	0.8653846153846155

13	SVC	f1	linear	0.8673469387755103
13	SVC	f1	linear	0.8673469387755103
13	SVC	f1	rbf	0.8653846153846155
13	SVC	f1	rbf	0.8653846153846155
14	SVC	f1	linear	0.826530612244898
14	SVC	f1	linear	0.826530612244898
14	SVC	f1	rbf	0.8682926829268293
14	SVC	f1	rbf	0.8682926829268293
14	SVC	f1	linear	0.826530612244898
14	SVC	f1	linear	0.826530612244898
14	SVC	f1	rbf	0.8682926829268293
14	SVC	f1	rbf	0.8682926829268293
15	SVC	f1	linear	0.7789473684210526
15	SVC	f1	linear	0.7789473684210526
15	SVC	f1	rbf	0.8258706467661692
15	SVC	f1	rbf	0.8258706467661692
15	SVC	f1	linear	0.7789473684210526
15	SVC	f1	linear	0.7789473684210526
15	SVC	f1	rbf	0.8258706467661692
15	SVC	f1	rbf	0.8258706467661692
16	SVC	f1	linear	0.8514851485148516
16	SVC	f1	linear	0.8514851485148516
16	SVC	f1	rbf	0.8461538461538461
16	SVC	f1	rbf	0.8461538461538461
16	SVC	f1	linear	0.8514851485148516
16	SVC	f1	linear	0.8514851485148516
16	SVC	f1	rbf	0.8461538461538461
16	SVC	f1	rbf	0.8461538461538461
17	SVC	f1	linear	0.839378238341969
17	SVC	f1	linear	0.839378238341969
17	SVC	f1	rbf	0.8514851485148516
17	SVC	f1	rbf	0.8514851485148516
17	SVC	f1	linear	0.839378238341969
17	SVC	f1	linear	0.839378238341969
17	SVC	f1	rbf	0.8514851485148516
17	SVC	f1	rbf	0.8514851485148516
18	SVC	f1	linear	0.8602150537634409
18	SVC	f1	linear	0.8602150537634409
18	SVC	f1	rbf	0.83
18	SVC	f1	rbf	0.83
18	SVC	f1	linear	0.8602150537634409
18	SVC	f1	linear	0.8602150537634409
18	SVC	f1	rbf	0.83

18	SVC	f1	rbf	0.83
19	SVC	f1	linear	0.7812499999999999
19	SVC	f1	linear	0.7812499999999999
19	SVC	f1	rbf	0.8241206030150753
19	SVC	f1	rbf	0.8241206030150753
19	SVC	f1	linear	0.7812499999999999
19	SVC	f1	linear	0.7812499999999999
19	SVC	f1	rbf	0.8241206030150753
19	SVC	f1	rbf	0.8241206030150753
20	SVC	f1	linear	0.845360824742268
20	SVC	f1	linear	0.845360824742268
20	SVC	f1	rbf	0.8571428571428572
20	SVC	f1	rbf	0.8571428571428572
20	SVC	f1	linear	0.845360824742268
20	SVC	f1	linear	0.845360824742268
20	SVC	f1	rbf	0.8571428571428572
20	SVC	f1	rbf	0.8571428571428572
21	SVC	f1	linear	0.7724867724867724
21	SVC	f1	linear	0.7724867724867724
21	SVC	f1	rbf	0.8229166666666666
21	SVC	f1	rbf	0.8229166666666666
21	SVC	f1	linear	0.7724867724867724
21	SVC	f1	linear	0.7724867724867724
21	SVC	f1	rbf	0.8229166666666666
21	SVC	f1	rbf	0.8229166666666666
22	SVC	f1	linear	0.88
22	SVC	f1	linear	0.88
22	SVC	f1	rbf	0.8490566037735849
22	SVC	f1	rbf	0.8490566037735849
22	SVC	f1	linear	0.88
22	SVC	f1	linear	0.88
22	SVC	f1	rbf	0.8490566037735849
22	SVC	f1	rbf	0.8490566037735849
23	SVC	f1	linear	0.823529411764706
23	SVC	f1	linear	0.823529411764706
23	SVC	f1	rbf	0.8252427184466019
23	SVC	f1	rbf	0.8252427184466019
23	SVC	f1	linear	0.823529411764706
23	SVC	f1	linear	0.823529411764706
23	SVC	f1	rbf	0.8252427184466019
23	SVC	f1	rbf	0.8252427184466019
24	SVC	f1	linear	0.8315789473684212
24	SVC	f1	linear	0.8315789473684212

24	SVC	f1	rbf	0.8656716417910448
24	SVC	f1	rbf	0.8656716417910448
24	SVC	f1	linear	0.8315789473684212
24	SVC	f1	linear	0.8315789473684212
24	SVC	f1	rbf	0.8656716417910448
24	SVC	f1	rbf	0.8656716417910448
25	SVC	f1	linear	0.8432432432432434
25	SVC	f1	linear	0.8432432432432434
25	SVC	f1	rbf	0.83248730964467
25	SVC	f1	rbf	0.83248730964467
25	SVC	f1	linear	0.8432432432432434
25	SVC	f1	linear	0.8432432432432434
25	SVC	f1	rbf	0.83248730964467
25	SVC	f1	rbf	0.83248730964467

Table 46: Results for each split in the inner loop for each metric for SVC

Split number	Estimator name	Metric name	criterion	Score
1	DecisionTreeClassifier	accuracy	gini	0.6194029850746269
1	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
1	DecisionTreeClassifier	accuracy	gini	0.6268656716417911
1	DecisionTreeClassifier	accuracy	entropy	0.6492537313432836
1	DecisionTreeClassifier	accuracy	gini	0.5970149253731343
1	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
1	DecisionTreeClassifier	accuracy	gini	0.6119402985074627
1	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
2	DecisionTreeClassifier	accuracy	gini	0.664179104477612
2	DecisionTreeClassifier	accuracy	entropy	0.664179104477612
2	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
2	DecisionTreeClassifier	accuracy	entropy	0.6194029850746269
2	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
2	DecisionTreeClassifier	accuracy	entropy	0.6044776119402985
2	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
2	DecisionTreeClassifier	accuracy	entropy	0.6343283582089553
3	DecisionTreeClassifier	accuracy	gini	0.6390977443609023
3	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
3	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
3	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
3	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
3	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
3	DecisionTreeClassifier	accuracy	gini	0.6541353383458647

3	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
4	DecisionTreeClassifier	accuracy	gini	0.706766917293233
4	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
4	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
4	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
4	DecisionTreeClassifier	accuracy	gini	0.6541353383458647
4	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
4	DecisionTreeClassifier	accuracy	gini	0.6466165413533834
4	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
5	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
5	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
5	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
5	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
5	DecisionTreeClassifier	accuracy	gini	0.6992481203007519
5	DecisionTreeClassifier	accuracy	entropy	0.7142857142857143
5	DecisionTreeClassifier	accuracy	gini	0.6842105263157895
5	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
6	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
6	DecisionTreeClassifier	accuracy	entropy	0.7611940298507462
6	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
6	DecisionTreeClassifier	accuracy	entropy	0.7388059701492538
6	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
6	DecisionTreeClassifier	accuracy	entropy	0.7238805970149254
6	DecisionTreeClassifier	accuracy	gini	0.7238805970149254
6	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
7	DecisionTreeClassifier	accuracy	gini	0.6194029850746269
7	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
7	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
7	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
7	DecisionTreeClassifier	accuracy	gini	0.6119402985074627
7	DecisionTreeClassifier	accuracy	entropy	0.7014925373134329
7	DecisionTreeClassifier	accuracy	gini	0.6119402985074627
7	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
8	DecisionTreeClassifier	accuracy	gini	0.7218045112781954
8	DecisionTreeClassifier	accuracy	entropy	0.6616541353383458
8	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
8	DecisionTreeClassifier	accuracy	entropy	0.6766917293233082
8	DecisionTreeClassifier	accuracy	gini	0.7293233082706767
8	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
8	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
8	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
9	DecisionTreeClassifier	accuracy	gini	0.7368421052631579
9	DecisionTreeClassifier	accuracy	entropy	0.7443609022556391

9	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
9	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
9	DecisionTreeClassifier	accuracy	gini	0.7142857142857143
9	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
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9	DecisionTreeClassifier	accuracy	entropy	0.7368421052631579
10	DecisionTreeClassifier	accuracy	gini	0.6090225563909775
10	DecisionTreeClassifier	accuracy	entropy	0.6691729323308271
10	DecisionTreeClassifier	accuracy	gini	0.6015037593984962
10	DecisionTreeClassifier	accuracy	entropy	0.6917293233082706
10	DecisionTreeClassifier	accuracy	gini	0.5864661654135338
10	DecisionTreeClassifier	accuracy	entropy	0.6992481203007519
10	DecisionTreeClassifier	accuracy	gini	0.6165413533834586
10	DecisionTreeClassifier	accuracy	entropy	0.6842105263157895
11	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
11	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
11	DecisionTreeClassifier	accuracy	gini	0.6567164179104478
11	DecisionTreeClassifier	accuracy	entropy	0.6194029850746269
11	DecisionTreeClassifier	accuracy	gini	0.6417910447761194
11	DecisionTreeClassifier	accuracy	entropy	0.6268656716417911
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12	DecisionTreeClassifier	accuracy	gini	0.6791044776119403
12	DecisionTreeClassifier	accuracy	entropy	0.6716417910447762
12	DecisionTreeClassifier	accuracy	gini	0.6492537313432836
12	DecisionTreeClassifier	accuracy	entropy	0.6791044776119403
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12	DecisionTreeClassifier	accuracy	entropy	0.6940298507462687
12	DecisionTreeClassifier	accuracy	gini	0.664179104477612
12	DecisionTreeClassifier	accuracy	entropy	0.6865671641791045
13	DecisionTreeClassifier	accuracy	gini	0.631578947368421
13	DecisionTreeClassifier	accuracy	entropy	0.7293233082706767
13	DecisionTreeClassifier	accuracy	gini	0.6691729323308271
13	DecisionTreeClassifier	accuracy	entropy	0.7443609022556391
13	DecisionTreeClassifier	accuracy	gini	0.6240601503759399
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14	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
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16	DecisionTreeClassifier	accuracy	gini	0.6940298507462687
16	DecisionTreeClassifier	accuracy	entropy	0.7313432835820896
16	DecisionTreeClassifier	accuracy	gini	0.7089552238805971
16	DecisionTreeClassifier	accuracy	entropy	0.7611940298507462
16	DecisionTreeClassifier	accuracy	gini	0.7313432835820896
16	DecisionTreeClassifier	accuracy	entropy	0.7089552238805971
16	DecisionTreeClassifier	accuracy	gini	0.7164179104477612
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17	DecisionTreeClassifier	accuracy	gini	0.6865671641791045
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20	DecisionTreeClassifier	accuracy	gini	0.6766917293233082
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25	DecisionTreeClassifier	accuracy	entropy	0.706766917293233
25	DecisionTreeClassifier	accuracy	gini	0.7518796992481203
25	DecisionTreeClassifier	accuracy	entropy	0.7218045112781954
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3	DecisionTreeClassifier	f1	gini	0.7391304347826086
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6	DecisionTreeClassifier	f1	gini	0.8020833333333333
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11	DecisionTreeClassifier	f1	entropy	0.7340425531914893
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24	DecisionTreeClassifier	f1	entropy	0.7807486631016043
25	DecisionTreeClassifier	f1	gini	0.7977528089887641
25	DecisionTreeClassifier	f1	entropy	0.7977528089887641
25	DecisionTreeClassifier	f1	gini	0.7796610169491526
25	DecisionTreeClassifier	f1	entropy	0.7745664739884393
25	DecisionTreeClassifier	f1	gini	0.8156424581005587
25	DecisionTreeClassifier	f1	entropy	0.7909604519774012
25	DecisionTreeClassifier	f1	gini	0.7840909090909092
25	DecisionTreeClassifier	f1	entropy	0.8

Table 47: Results for each split in the inner loop for each metric for DecisionTreeClassifier

Split number	Estimator	Metric	Best parameters	Score
1	RandomForestClassifier	accuracy	n_estimators=50	0.84677419
2	RandomForestClassifier	accuracy	n_estimators=50	0.86444008
3	RandomForestClassifier	accuracy	n_estimators=50	0.82772277
4	RandomForestClassifier	accuracy	n_estimators=50	0.82945736

5	RandomForestClassifier	accuracy	n_estimators=50	0.81763527
6	RandomForestClassifier	accuracy	n_estimators=50	0.82965932
7	RandomForestClassifier	accuracy	n_estimators=50	0.84630739
8	RandomForestClassifier	accuracy	n_estimators=50	0.83858268
9	RandomForestClassifier	accuracy	n_estimators=50	0.83033932
10	RandomForestClassifier	accuracy	n_estimators=50	0.83234714
11	RandomForestClassifier	accuracy	n_estimators=50	0.84418146
12	RandomForestClassifier	accuracy	n_estimators=50	0.83033932
13	RandomForestClassifier	accuracy	n_estimators=50	0.84677419
14	RandomForestClassifier	accuracy	n_estimators=50	0.83960396
15	RandomForestClassifier	accuracy	n_estimators=50	0.83730159
1	SVC	f1	kernel=rbf	0.84210526
2	SVC	f1	kernel=rbf	0.83693517
3	SVC	f1	kernel=rbf	0.84169884
4	SVC	f1	kernel=rbf	0.82851638
5	SVC	f1	kernel=rbf	0.836
6	SVC	f1	kernel=rbf	0.82879377
7	SVC	f1	kernel=rbf	0.84571429
8	SVC	f1	kernel=rbf	0.84496124
9	SVC	f1	kernel=rbf	0.82692308
10	SVC	f1	kernel=rbf	0.84479371
11	SVC	f1	kernel=rbf	0.84126984
12	SVC	f1	kernel=rbf	0.84230769
13	SVC	f1	kernel=rbf	0.85436893
14	SVC	f1	kernel=rbf	0.84540117
15	SVC	f1	kernel=rbf	0.82677165
1	DecisionTreeClassifier	f1	criterion=entropy	0.77124183
2	DecisionTreeClassifier	f1	criterion=entropy	0.79069767
3	DecisionTreeClassifier	f1	criterion=gini	0.7761194
4	DecisionTreeClassifier	f1	criterion=entropy	0.75982533
5	DecisionTreeClassifier	f1	criterion=gini	0.76789588
6	DecisionTreeClassifier	f1	criterion=entropy	0.73819742
7	DecisionTreeClassifier	f1	criterion=entropy	0.77727273
8	DecisionTreeClassifier	f1	criterion=gini	0.78372591
9	DecisionTreeClassifier	f1	criterion=entropy	0.77542373
10	DecisionTreeClassifier	f1	criterion=gini	0.75330396
11	DecisionTreeClassifier	f1	criterion=entropy	0.81081081
12	DecisionTreeClassifier	f1	criterion=entropy	0.8
13	DecisionTreeClassifier	f1	criterion=entropy	0.76821192
14	DecisionTreeClassifier	f1	criterion=entropy	0.76169265
15	DecisionTreeClassifier	f1	criterion=entropy	0.75164835
1	DecisionTreeClassifier	accuracy	criterion=entropy	0.76126126
2	DecisionTreeClassifier	accuracy	criterion=entropy	0.79574468

3	DecisionTreeClassifier	accuracy	criterion=gini	0.75
4	DecisionTreeClassifier	accuracy	criterion=entropy	0.76586433
5	DecisionTreeClassifier	accuracy	criterion=gini	0.76923077
6	DecisionTreeClassifier	accuracy	criterion=entropy	0.74468085
7	DecisionTreeClassifier	accuracy	criterion=gini	0.77678571
8	DecisionTreeClassifier	accuracy	criterion=gini	0.79399142
9	DecisionTreeClassifier	accuracy	criterion=entropy	0.76332623
10	DecisionTreeClassifier	accuracy	criterion=gini	0.75496689
11	DecisionTreeClassifier	accuracy	criterion=gini	0.75381264
12	DecisionTreeClassifier	accuracy	criterion=entropy	0.79826464
13	DecisionTreeClassifier	accuracy	criterion=entropy	0.76688453
14	DecisionTreeClassifier	accuracy	criterion=entropy	0.74272931
15	DecisionTreeClassifier	accuracy	criterion=entropy	0.75862069
1	SVC	accuracy	kernel=linear	0.83193277
2	SVC	accuracy	kernel=rbf	0.83693517
3	SVC	accuracy	kernel=rbf	0.84169884
4	SVC	accuracy	kernel=rbf	0.82851638
5	SVC	accuracy	kernel=rbf	0.836
6	SVC	accuracy	kernel=rbf	0.82879377
7	SVC	accuracy	kernel=rbf	0.84571429
8	SVC	accuracy	kernel=rbf	0.84496124
9	SVC	accuracy	kernel=rbf	0.82692308
10	SVC	accuracy	kernel=rbf	0.84479371
11	SVC	accuracy	kernel=rbf	0.84126984
12	SVC	accuracy	kernel=linear	0.84040404
13	SVC	accuracy	kernel=rbf	0.85436893
14	SVC	accuracy	kernel=rbf	0.84540117
15	SVC	accuracy	kernel=rbf	0.82677165
1	RandomForestClassifier	f1	n_estimators=50	0.83730159
2	RandomForestClassifier	f1	n_estimators=50	0.84189723
3	RandomForestClassifier	f1	n_estimators=50	0.85658153
4	RandomForestClassifier	f1	n_estimators=50	0.81908549
5	RandomForestClassifier	f1	n_estimators=50	0.82745098
6	RandomForestClassifier	f1	n_estimators=50	0.84251969
7	RandomForestClassifier	f1	n_estimators=50	0.832
8	RandomForestClassifier	f1	n_estimators=50	0.83268482
9	RandomForestClassifier	f1	n_estimators=50	0.812
10	RandomForestClassifier	f1	n_estimators=50	0.84063745
11	RandomForestClassifier	f1	n_estimators=50	0.84872299
12	RandomForestClassifier	f1	n_estimators=50	0.83070866
13	RandomForestClassifier	f1	n_estimators=50	0.8456913
14	RandomForestClassifier	f1	n_estimators=50	0.85429142
15	RandomForestClassifier	f1	n_estimators=50	0.82101167

Table 48: Best results for each split in the outer loop for each metric and estimator

Estimator	Metric	Score
RandomForestClassifier	accuracy	$0.8374310695927681 \pm 0.01086594856249385$
SVC	f1	$0.8391040688838475 \pm 0.00794540804869685$
DecisionTreeClassifier	f1	$0.7724045068419255 \pm 0.018301175542934544$
DecisionTreeClassifier	accuracy	$0.7664109296677927 \pm 0.017205932199360275$
SVC	accuracy	$0.838298992753694 \pm 0.008045982273582627$
RandomForestClassifier	f1	$0.8361723267518986 \pm 0.012460166000643192$

Table 49: Overall results, the average of the best results for each metric and estimator

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