Predicted Ranking V/s Actual Ranking on different performance measures

1. Accuracy

```
a1a.arff -> 4,3,6,5,10,2,11,9,7,1
  ada_agnostic.arff ->
  11,9,7,0,8,12,10,4,1,3
ada_prior.arff -> 4,11,9,5,6,7,2,0,8,3
agaricus-lepiota.arff ->
11,2,9,10,7,4,0,8,12,1
australian_scale.arff ->
6,3,1,10,2,11,9,7,4,5
bands.arff -> 8,12,9,6,0,11,5,2,1,7
breast-cancer.arff ->
5,4,2,6,1,3,11,9,7,0
brest-cancer-wisconsin.arff ->
1,11,9,7,0,8,12,5,2,3
chess.arff -> 11,9,7,8,0,12,1,5,4,10
coil2000.arff -> 2,1,11,4,9,7,8,3,0,5
crx.arff -> 3,11,6,9,7,8,4,0,12,1
german.numer_scale.arff ->
11,6,9,7,8,4,0,12,1,3
gina_agnostic.arff ->
11,6,9,7,4,0,12,1,3,2
gina_prior.arff -> 11,6,9,7,8,4,0,12,1,5
heart.arff -> 11,6,10,9,8,7,4,0,12,1
hepatitis.arff -> 11,6,9,7,0,12,1,3,2,8
hiva_agnostic.arff ->
11,6,9,7,8,0,12,1,3,2
housevotes.arff ->
7,9,11,6,0,8,1,4,12,10
ijcnn1.arff -> 10,11,6,8,9,7,4,0,12,1
ionosphere.arff -> 11,6,9,7,4,0,12,1,8,2
jm1.arff -> 10,2,5,8,11,6,9,7,3,4
kc1-class-level-binary.arff ->
2,10,11,6,8,9,7,4,0,12
kc3.arff -> 11,6,9,8,7,4,0,1,12,5
labor.arff -> 11,6,9,8,7,4,0,1,12,2
mc1.arff -> 10,2,3,8,11,6,9,7,4,0
mc2.arff -> 2,11,6,9,7,4,0,1,12,5
mw1.arff -> 3,2,6,11,9,8,7,10,4,0
pc1.arff -> 2,5,6,11,9,8,7,4,0,1
pc3.arff -> 6,11,9,7,4,0,1,12,8,3
pc4.arff -> 10,2,3,5,6,11,9,8,7,4
pima-indians-diabetes.arff ->
11,9,8,7,4,0,1,12,2,3
ring.arff -> 5,10,11,9,8,7,4,0,1,12
ringnorm.arff -> 5,10,11,9,8,7,4,0,1,12
saheart.arff -> 11,9,8,7,4,0,1,12,2,6
sonar.arff -> 10,6,11,8,9,7,4,5,12,0
spambase.arff -> 6,5,10,11,8,9,7,4,12,0
spectfheart.arff ->
6,11,8,9,7,10,4,12,0,1
svmguide3.arff -> 5,11,8,9,7,4,6,12,0,1
sylva_agnostic.arff ->
6,11,5,8,9,7,4,12,0,1
sylva_prior.arff ->
10,6,5,11,8,9,7,4,12,0
twonorm.arff -> 5,11,8,9,7,4,12,0,1,2
unbalanced.arff -> 11,8,9,7,4,12,0,1,2,3
vote.arff -> 11,8,9,7,4,12,0,1,2,3
wdbc.arff -> 11,8,9,7,5,4,12,0,1,2
```

```
a1a.arff -> 7,4,6,11,8,1,5,12,0,2
ada_agnostic.arff -> 6,11,8,7,9,5,1,4,0,2
ada_prior.arff -> 8,6,11,4,0,7,2,1,12,9
agaricus-lepiota.arff ->
10,9,0,4,7,1,11,2,12,6
australian_scale.arff ->
8,6,5,3,12,1,2,4,11,9
bands.arff -> 6,10,5,11,12,2,3,7,8,1
breast-cancer.arff ->
6,5,0,12,8,7,9,3,2,1
brest-cancer-wisconsin.arff ->
3,4,7,0,1,2,6,8,9,11
chess.arff -> 10,9,7,11,4,0,1,6,12,2
coil2000.arff -> 0,1,2,3,4,8,12,11,6,7
crx.arff -> 7,6,12,4,2,0,8,11,1,9
german.numer_scale.arff ->
6,7,5,11,12,4,2,0,9,8
gina_agnostic.arff ->
11,7,6,8,9,4,1,0,5,10
gina_prior.arff -> 7,11,9,10,0,4,1,6,8,2
heart.arff -> 8,5,6,4,12,11,7,1,2,3
hepatitis.arff -> 5,10,12,0,1,7,8,9,4,2
hiva_agnostic.arff ->
4,7,9,2,6,0,1,3,8,12
housevotes.arff -> 6,11,8,9,10,5,12,7,3,4
ijcnn1.arff -> 10,9,7,0,4,11,1,2,3,6
ionosphere.arff -> 5,9,11,7,10,1,12,2,6,0
jm1.arff -> 1,7,11,6,4,0,12,9,2,3
kc1-class-level-binary.arff ->
6,9,11,2,3,5,4,10,7,0
kc3.arff -> 2,3,4,6,8,7,0,11,1,12
labor.arff -> 2,3,4,7,9,12,0,1,11,5
mc1.arff -> 9,0,7,10,4,1,2,11,12,3
mc2.arff -> 0,1,6,3,12,5,4,7,9,2
mw1.arff -> 7,8,3,6,12,0,4,1,2,11
pc1.arff -> 7,9,11,3,8,0,2,6,12,4
pc3.arff -> 3,4,8,1,2,9,6,7,12,11
pc4.arff -> 2,3,8,12,11,1,6,4,9,7
pima-indians-diabetes.arff ->
6,7,11,12,9,5,8,1,0,4
ring.arff -> 5,7,9,0,1,4,11,10,2,8
ringnorm.arff -> 5,7,9,1,4,0,10,11,2,8
saheart.arff -> 12,6,1,7,0,3,9,2,4,5
sonar.arff -> 10,11,9,1,4,7,0,5,6,12
spambase.arff -> 9,7,11,10,1,0,4,6,2,5
spectfheart.arff -> 6,7,11,9,2,3,8,12,0,1
svmguide3.arff -> 11,6,1,0,7,5,2,9,12,4
sylva_agnostic.arff ->
7,9,11,4,8,2,6,0,1,5
sylva_prior.arff -> 6,11,9,7,0,8,4,1,10,2
twonorm.arff -> 5,2,3,4,12,0,8,6,1,7
unbalanced.arff -> 0,1,2,3,4,5,6,7,8,11
vote.arff -> 6,11,8,7,0,9,10,1,5,12
wdbc.arff -> 11,6,9,7,0,1,10,4,12,5
```

2. Area under curve

```
a1a.arff -> 12,11,6,5,9,10,1,7,4,2
ada_agnostic.arff ->
9,7,5,2,1,6,12,11,3,0
ada_prior.arff -> 5,11,7,12,1,3,6,9,10,2
agaricus-lepiota.arff ->
10,7,5,3,9,6,11,12,2,1
australian_scale.arff ->
5,9,11,12,0,7,10,4,6,1
bands.arff -> 7,6,5,11,0,1,2,8,4,12
breast-cancer.arff ->
11,6,5,4,12,9,7,2,0,1
brest-cancer-wisconsin.arff ->
11,12,7,3,1,6,5,10,9,8
chess.arff -> 7,5,10,12,2,9,1,8,11,6
coil2000.arff -> 5,1,7,6,0,2,11,4,12,10
crx.arff -> 10,6,3,11,5,9,7,2,4,0
german.numer_scale.arff ->
9,0,6,10,7,11,3,12,1,4
gina_agnostic.arff ->
1,7,0,11,4,9,12,10,2,6
gina_prior.arff ->
9,10,5,3,11,12,1,4,7,6
heart.arff -> 6,11,12,5,4,7,8,10,0,1
hepatitis.arff -> 7,10,9,2,0,6,11,5,3,12
hiva_agnostic.arff ->
9,0,7,12,1,6,3,5,8,11
housevotes.arff ->
4,11,5,12,7,1,2,10,6,9
ijcnn1.arff -> 7,1,12,2,4,11,5,6,9,0
ionosphere.arff ->
9,0,3,5,6,8,10,7,11,12
jm1.arff -> 9,7,11,0,6,10,5,12,3,8
kc1-class-level-binary.arff ->
10,5,12,7,9,6,0,1,11,3
kc3.arff -> 9,5,6,0,3,7,12,11,8,1
labor.arff -> 9,7,0,3,1,6,8,10,5,12
mc1.arff -> 9,7,11,0,5,6,3,1,12,8
mc2.arff -> 9,0,3,12,8,1,6,10,2,5
mw1.arff -> 12,6,7,5,1,2,9,11,0,10
pc1.arff -> 9,6,0,3,10,11,7,12,5,8
pc3.arff -> 7,1,6,12,5,2,9,0,3,8
pc4.arff -> 11,10,12,5,7,6,1,2,9,4
pima-indians-diabetes.arff ->
12,9,7,0,1,6,5,11,2,8
ring.arff -> 7,9,11,5,0,2,12,8,1,6
ringnorm.arff -> 7,2,9,11,5,0,12,1,6,8
saheart.arff -> 4,10,7,5,12,11,2,6,8,9
sonar.arff -> 11,6,9,12,5,7,0,1,8,4
spambase.arff -> 7,11,6,0,9,12,1,8,3,2
spectfheart.arff ->
9,6,0,11,7,1,12,2,4,5
svmguide3.arff -> 11,9,7,5,0,2,1,12,4,10
sylva_agnostic.arff ->
7,12,6,11,9,2,1,0,5,4
sylva_prior.arff ->
12,1,6,2,9,11,7,5,0,8
twonorm.arff -> 7,5,11,9,0,1,2,6,8,4
unbalanced.arff ->
9,6,7,4,1,12,10,11,0,3
vote.arff -> 3,12,6,7,4,1,5,0,9,10
wdbc.arff -> 7,9,5,12,4,1,6,10,11,3
```

```
a1a.arff -> 6,7,11,5,12,9,2,1,0,4
ada_agnostic.arff ->
6,11,7,5,2,1,9,12,0,4
ada_prior.arff -> 6,11,7,5,2,12,1,0,9,4
agaricus-lepiota.arff ->
9,10,7,11,4,2,1,0,12,5
australian_scale.arff ->
6,5,7,9,2,11,1,12,4,0
bands.arff -> 5,6,10,11,9,7,12,3,2,1
breast-cancer.arff ->
9,12,7,6,5,11,1,0,3,10
brest-cancer-wisconsin.arff ->
6,9,11,5,12,2,7,3,4,0
chess.arff -> 9,7,11,10,1,4,0,6,12,2
coil2000.arff -> 6,11,7,5,12,3,9,1,10,8
crx.arff -> 6,11,7,9,12,2,1,5,0,4
german.numer_scale.arff ->
6,5,12,7,11,9,1,0,2,4
gina_agnostic.arff ->
11,7,9,6,1,5,4,0,12,2
gina_prior.arff ->
7,9,11,1,6,4,2,0,10,5
heart.arff -> 5,6,7,12,2,11,9,8,0,1
hepatitis.arff ->
9,12,11,7,6,5,0,3,10,1
hiva_agnostic.arff ->
7,6,12,9,5,11,2,10,0,4
housevotes.arff ->
11,6,9,5,12,7,2,10,8,4
ijcnn1.arff -> 7,9,1,10,4,0,2,11,12,5
ionosphere.arff ->
9,5,7,11,1,12,6,2,0,10
jm1.arff -> 7,6,9,2,11,12,1,4,0,10
kc1-class-level-binary.arff ->
9,6,7,5,11,12,2,3,1,0
kc3.arff -> 6,7,9,12,5,11,10,3,0,1
labor.arff -> 9,12,7,11,2,3,4,5,6,0
mc1.arff -> 7,10,12,6,5,2,9,1,11,3
mc2.arff -> 7,6,5,12,9,0,11,1,4,3
mw1.arff -> 6,5,11,12,7,2,10,9,0,3
pc1.arff -> 7,12,9,6,11,1,0,3,10,5
pc3.arff -> 7,11,6,9,5,12,1,3,10,0
pc4.arff -> 7,6,11,12,9,1,5,3,0,10
pima-indians-diabetes.arff ->
6,7,5,11,9,12,1,0,2,4
ring.arff -> 5,7,9,1,11,4,0,2,10,12
ringnorm.arff -> 5,7,9,1,4,11,0,2,10,12
saheart.arff -> 6,5,7,12,9,1,2,0,11,4
sonar.arff -> 9,11,7,10,1,6,12,4,5,0
spambase.arff -> 7,9,11,1,6,4,2,5,12,0
spectfheart.arff ->
6,5,11,7,12,1,9,3,0,4
svmguide3.arff -> 6,11,7,5,9,2,12,1,0,4
sylva_agnostic.arff ->
11,5,6,7,12,2,1,9,3,0
sylva_prior.arff ->
6,11,7,12,2,9,5,4,1,0
twonorm.arff -> 5,6,7,2,12,11,9,1,0,8
unbalanced.arff ->
6,12,11,5,10,3,9,7,8,0
vote.arff -> 6,11,5,7,12,9,2,10,8,0
wdbc.arff -> 6,9,7,11,12,5,2,4,10,1
```

3. Precision

```
a1a.arff -> 8,3,10,5,2,11,9,7,4,0
ada_agnostic.arff ->
11,9,7,4,0,1,12,10,6,5
ada_prior.arff -> 11,9,7,5,4,0,6,1,8,12
agaricus-lepiota.arff ->
10,8,11,9,7,4,0,6,2,1
australian_scale.arff ->
5,10,3,11,2,9,7,8,4,0
bands.arff -> 11,12,2,4,0,9,6,5,10,1
breast-cancer.arff ->
2,6,5,8,10,11,9,7,4,0
brest-cancer-wisconsin.arff ->
11,9,7,4,0,1,12,2,6,3
chess.arff -> 11,9,7,4,0,5,1,12,8,2
coil2000.arff -> 11,9,7,4,0,10,8,1,6,12
crx.arff -> 11,9,7,6,4,0,1,2,5,12
german.numer_scale.arff ->
11,9,7,6,4,0,1,2,5,12
gina_agnostic.arff ->
11,9,7,6,4,0,1,2,3,5
gina_prior.arff ->
11,9,7,6,4,0,1,2,5,12
heart.arff -> 10,3,11,9,7,8,6,4,0,1
hepatitis.arff -> 11,9,7,6,4,0,1,2,12,3
hiva_agnostic.arff ->
11,9,7,6,8,4,0,1,2,12
housevotes.arff ->
7,9,11,4,0,1,6,2,12,5
ijcnn1.arff -> 8,10,11,6,3,9,7,5,4,0
ionosphere.arff -> 11,6,9,7,4,0,1,2,5,3
jm1.arff -> 3,11,6,9,7,8,4,5,0,1
kc1-class-level-binary.arff ->
10,3,11,6,9,7,4,5,0,1
kc3.arff -> 11,6,9,7,4,5,0,1,2,12
labor.arff -> 11,6,9,4,5,1,2,7,10,12
mc1.arff -> 10,11,6,9,7,4,5,0,1,2
mc2.arff -> 11,6,9,7,4,5,0,1,2,12
mw1.arff -> 3,8,10,6,11,9,7,4,5,0
pc1.arff -> 10,6,11,9,7,4,5,0,1,2
pc3.arff -> 6,11,9,7,4,5,0,1,2,12
pc4.arff -> 10,8,3,6,11,9,7,4,5,0
pima-indians-diabetes.arff ->
2,11,1,8,0,6,4,7,5,12
ring.arff -> 2,7,0,10,9,1,5,8,4,11
ringnorm.arff -> 4,11,7,5,9,3,1,10,0,8
saheart.arff -> 3,11,7,2,8,6,9,4,5,10
sonar.arff -> 1,6,9,3,10,12,5,7,8,11
spambase.arff -> 7,5,9,4,1,10,6,12,11,2
spectfheart.arff ->
10,0,9,7,11,3,8,6,1,4
svmguide3.arff -> 4,1,9,7,3,5,8,12,11,0
sylva_agnostic.arff ->
2,6,0,5,4,3,10,9,11,12
sylva_prior.arff ->
2,6,3,5,7,10,8,9,12,11
twonorm.arff -> 5,7,9,10,11,0,1,4,2,8
unbalanced.arff -> 11,8,1,6,9,4,7,0,2,5
vote.arff -> 6,7,8,0,9,5,2,12,4,1
wdbc.arff -> 7,10,5,8,0,1,9,6,12,4
```

```
a1a.arff -> 7,6,4,8,5,11,1,9,12,0
ada_agnostic.arff ->
6,11,8,7,9,5,4,1,0,2
ada_prior.arff -> 8,6,11,4,0,5,7,1,2,12
agaricus-lepiota.arff ->
10,9,0,4,7,1,11,2,12,5
australian_scale.arff ->
8,5,3,12,6,1,2,4,11,9
bands.arff -> 6,10,5,11,9,7,12,3,2,1
breast-cancer.arff ->
8,6,5,12,0,7,1,11,9,10
brest-cancer-wisconsin.arff ->
3,4,7,2,0,1,6,8,9,11
chess.arff -> 10,9,7,11,4,0,1,6,12,2
coil2000.arff -> 6,9,5,10,7,0,1,2,3,4
crx.arff -> 7,6,12,4,8,2,3,0,11,1
german.numer_scale.arff ->
8,6,7,11,5,12,0,4,9,1
gina_agnostic.arff ->
11,7,8,6,9,4,5,1,0,10
gina_prior.arff -> 7,11,9,10,0,4,1,6,8,2
heart.arff -> 8,5,6,4,12,11,7,1,2,3
hepatitis.arff -> 5,10,0,11,12,1,9,6,7,4
hiva_agnostic.arff ->
7,4,9,2,6,0,1,11,10,5
housevotes.arff ->
6,11,8,9,10,5,12,3,7,4
ijcnn1.arff -> 10,9,7,0,4,11,1,2,3,6
ionosphere.arff ->
5,9,11,10,7,12,1,2,6,3
jm1.arff -> 1,7,12,9,11,6,4,0,10,2
kc1-class-level-binary.arff ->
2,3,8,9,6,11,4,5,10,7
kc3.arff -> 6,11,5,10,0,1,7,9,2,3
labor.arff -> 2,3,4,7,9,12,11,0,1,5
mc1.arff -> 9,10,7,0,12,4,2,1,11,6
mc2.arff -> 0,1,6,3,12,5,4,7,9,11
mw1.arff -> 7,5,6,12,0,11,1,10,9,4
pc1.arff -> 7,9,11,0,10,5,6,2,1,12
pc3.arff -> 10,9,7,6,0,5,11,3,4,8
pc4.arff -> 11,10,9,7,1,6,12,4,0,5
pima-indians-diabetes.arff ->
6,8,11,7,12,9,5,1,0,4
ring.arff -> 5,7,9,0,1,4,11,10,2,8
ringnorm.arff -> 5,7,9,1,4,0,10,11,8,2
saheart.arff -> 8,12,3,6,1,7,0,9,2,4
sonar.arff -> 10,11,3,9,1,0,7,4,5,12
spambase.arff -> 9,7,11,10,1,0,4,6,2,5
spectfheart.arff ->
6,5,11,7,9,1,10,0,12,4
svmguide3.arff -> 8,11,6,1,0,7,9,5,12,2
sylva_agnostic.arff ->
7,9,11,4,8,2,6,0,1,5
sylva_prior.arff ->
6,11,9,7,0,4,8,1,10,2
twonorm.arff -> 5,2,3,4,12,8,0,6,1,7
unbalanced.arff -> 10,0,1,2,3,4,5,6,7,8
vote.arff -> 6,11,8,7,0,9,10,5,1,12
wdbc.arff -> 11,6,9,7,1,10,0,12,4,8
```

4. Recall

```
a1a.arff -> 3,6,5,10,4,2,11,9,7,0
ada_agnostic.arff ->
11,9,7,0,8,4,12,10,1,3
ada_prior.arff -> 4,6,5,11,2,9,1,7,0,8
agaricus-lepiota.arff ->
2,4,11,9,10,7,6,0,8,12
australian_scale.arff ->
2,3,6,1,10,11,9,7,5,0
bands.arff -> 8,12,9,0,5,6,1,2,11,3
breast-cancer.arff ->
5,4,2,6,3,11,9,7,0,8
brest-cancer-wisconsin.arff ->
11,9,7,0,8,12,5,1,2,3
chess.arff -> 11,9,7,8,0,12,5,4,1,6
coil2000.arff -> 2,4,1,11,9,7,8,0,12,5
crx.arff -> 11,6,9,7,8,4,0,12,1,3
german.numer_scale.arff ->
11,6,9,7,8,4,0,12,1,5
gina_agnostic.arff ->
11,6,9,7,4,0,12,1,3,5
gina_prior.arff -> 11,6,9,7,8,4,0,12,1,5
heart.arff -> 11,6,9,7,4,0,3,12,1,10
hepatitis.arff -> 11,6,9,7,0,12,1,5,2,3
hiva_agnostic.arff ->
11,6,9,7,8,0,12,1,4,2
housevotes.arff ->
7,9,11,6,0,8,1,4,12,10
ijcnn1.arff -> 10,11,6,8,9,7,4,0,12,1
ionosphere.arff -> 11,6,9,7,4,0,12,1,8,2
jm1.arff -> 8,2,5,11,6,9,7,4,3,0
kc1-class-level-binary.arff ->
2,11,6,10,5,8,9,7,4,0
kc3.arff -> 11,6,9,8,7,4,0,1,12,2
labor.arff -> 11,6,9,8,7,4,0,1,12,2
mc1.arff -> 8,11,5,6,9,7,2,4,3,0
mc2.arff -> 2,11,6,9,7,4,0,1,12,10
mw1.arff -> 2,3,5,10,6,11,9,8,7,4
pc1.arff -> 2,5,6,11,9,8,7,4,0,1
pc3.arff -> 6,11,9,7,4,0,1,12,8,3
pc4.arff -> 10,3,5,2,6,11,9,8,7,4
pima-indians-diabetes.arff ->
11,9,8,7,4,0,1,12,2,3
ring.arff -> 5,10,11,9,8,7,4,0,1,12
ringnorm.arff -> 5,10,11,9,8,7,4,0,1,12
saheart.arff -> 11,9,8,7,4,0,1,12,2,3
sonar.arff -> 10,6,5,11,8,9,7,4,12,0
spambase.arff -> 6,10,5,11,8,9,7,4,12,0
spectfheart.arff ->
11,8,9,7,4,10,12,0,1,2
svmguide3.arff -> 5,11,8,9,7,10,4,12,0,1
sylva_agnostic.arff ->
6,5,11,8,9,7,4,12,0,1
sylva_prior.arff ->
6,10,5,11,8,9,7,4,12,0
twonorm.arff -> 5,11,8,9,7,4,12,0,1,2
unbalanced.arff -> 11,8,9,7,4,12,0,1,2,3
vote.arff -> 11,8,9,7,4,12,0,1,2,3
wdbc.arff -> 11,8,9,7,5,4,12,0,1,2
```

```
a1a.arff -> 7,4,6,11,8,1,5,12,0,2
ada_agnostic.arff ->
6,11,8,7,9,5,1,4,0,2
ada_prior.arff -> 8,6,11,4,0,7,2,1,12,9
agaricus-lepiota.arff ->
10,9,0,4,7,1,11,2,12,6
australian_scale.arff ->
8,6,5,3,12,1,2,4,11,9
bands.arff -> 6,10,5,11,12,2,3,7,8,1
breast-cancer.arff ->
6,5,0,12,8,7,9,3,2,1
brest-cancer-wisconsin.arff ->
3,4,7,0,1,2,6,8,9,11
chess.arff -> 10,9,7,11,4,0,1,6,12,2
coil2000.arff -> 0,1,2,3,4,8,12,11,6,7
crx.arff -> 7,6,12,4,2,0,8,11,1,9
german.numer_scale.arff ->
6,7,5,11,12,4,2,0,9,8
gina_agnostic.arff ->
11,7,6,8,9,4,1,0,5,10
gina_prior.arff ->
7,11,9,10,0,4,1,6,8,2
heart.arff -> 8,5,6,4,12,11,7,1,2,3
hepatitis.arff -> 5,10,12,0,1,7,8,9,4,2
hiva_agnostic.arff ->
4,7,9,2,6,0,1,3,8,12
housevotes.arff ->
6,11,8,9,10,5,12,7,3,4
ijcnn1.arff -> 10,9,7,0,4,11,1,2,3,6
ionosphere.arff ->
5,9,11,7,10,1,12,2,6,0
jm1.arff -> 1,7,11,6,4,0,12,9,2,3
kc1-class-level-binary.arff ->
6,9,11,2,3,5,4,10,7,0
kc3.arff -> 2,3,4,6,8,7,0,11,1,12
labor.arff -> 2,3,4,7,9,12,0,1,11,5
mc1.arff -> 9,0,7,10,4,1,2,11,12,3
mc2.arff -> 0,1,6,3,12,5,4,7,9,2
mw1.arff -> 7,8,3,6,12,0,4,1,2,11
pc1.arff -> 7,9,11,3,8,0,2,6,12,4
pc3.arff -> 3,4,8,1,2,9,6,7,12,11
pc4.arff -> 2,3,8,12,11,1,6,4,9,7
pima-indians-diabetes.arff ->
6,7,11,12,9,5,8,1,0,4
ring.arff -> 5,7,9,0,1,4,11,10,2,8
ringnorm.arff -> 5,7,9,1,4,0,10,11,2,8
saheart.arff -> 12,6,1,7,0,3,9,2,4,5
sonar.arff -> 10,11,9,1,4,7,0,5,6,12
spambase.arff -> 9,7,11,10,1,0,4,6,2,5
spectfheart.arff ->
6,7,11,9,2,3,8,12,0,1
svmguide3.arff -> 11,6,1,0,7,5,2,9,12,4
sylva_agnostic.arff ->
7,9,11,4,8,2,6,0,1,5
sylva_prior.arff ->
6,11,9,7,0,8,4,1,10,2
twonorm.arff -> 5,2,3,4,12,0,8,6,1,7
unbalanced.arff -> 0,1,2,3,4,5,6,7,8,11
vote.arff -> 6,11,8,7,0,9,10,1,5,12
```

	wdbc.arff -> 11,6,9,7,0,1,10,4,12,5

5. FMeasure

a1a.arff -> 8,10,5,11,9,7,4,6,0,1	a1a.arff -> 7,6,11,5,4,1,9,0,12,8
ada_agnostic.arff -> 11,9,7,4,6,0,1,5,12,2	ada_agnostic.arff -> 6,11,7,9,4,5,0,8,1,12
ada_prior.arff -> 11,9,7,6,4,0,1,5,12,2	ada_prior.arff -> 6,11,8,4,7,0,1,5,2,12
agaricus-lepiota.arff -> 10,8,5,11,9,7,6,4,0,1	agaricus-lepiota.arff -> 10,9,0,7,4,1,11,2,12,6
australian_scale.arff -> 8,10,3,5,11,9,7,6,4,0	australian_scale.arff -> 6,8,3,12,5,1,2,4,11,9
bands.arff -> 11,12,6,5,7,2,10,9,4,0	bands.arff -> 10,6,5,11,9,7,3,12,1,0
breast-cancer.arff -> 8,11,9,7,5,6,4,0,3,1	breast-cancer.arff -> 6,5,12,7,0,1,11,9,10,2
brest-cancer-wisconsin.arff -> 11,9,7,6,4,0,1,12,2,10	brest-cancer-wisconsin.arff -> 3,4,7,2,0,1,6,8,9,11
chess.arff -> 11,9,6,7,4,0,1,2,12,8	chess.arff -> 10,9,7,11,4,0,1,6,12,2
coil2000.arff -> 11,9,6,7,4,0,1,2,12,8	coil2000.arff -> 9,6,0,1,2,3,4,8,12,7
crx.arff -> 11,9,6,7,4,0,1,5,2,12	crx.arff -> 7,6,12,4,2,0,11,1,9,8
german.numer_scale.arff -> 11,9,6,7,4,0,1,5,2,12	german.numer_scale.arff -> 6,11,7,5,12,0,4,9,2,1
gina_agnostic.arff -> 11,9,6,7,4,0,1,5,2,12	gina_agnostic.arff -> 11,7,6,8,9,4,1,0,5,10
gina_prior.arff -> 11,9,6,7,4,0,1,5,2,12	gina_prior.arff -> 7,11,9,10,0,4,1,6,8,2
heart.arff -> 11,9,10,6,7,4,0,1,5,2	heart.arff -> 8,6,5,4,12,11,7,1,9,2
hepatitis.arff -> 8,11,9,6,7,4,0,5,2,3	hepatitis.arff -> 5,10,12,0,1,9,11,7,6,4
hiva_agnostic.arff -> 11,9,6,7,4,0,5,2,3,1	hiva_agnostic.arff -> 9,4,7,11,0,1,2,6,10,3
housevotes.arff -> 9,7,11,4,0,6,2,5,3,10	housevotes.arff -> 6,11,8,9,10,5,12,7,3,4
ijcnn1.arff -> 12,8,10,1,11,6,9,7,4,0	ijcnn1.arff -> 10,9,7,0,4,1,11,2,3,6
ionosphere.arff -> 11,6,9,7,4,5,2,3,1,8	ionosphere.arff -> 5,9,11,7,10,1,12,2,6,0
jm1.arff -> 10,12,8,1,11,6,9,7,4,0	jm1.arff -> 9,7,5,10,4,11,1,2,6,0
kc1-class-level-binary.arff -> 1,10,12,11,6,8,9,7,4,0	kc1-class-level-binary.arff -> 9,6,11,2,3,4,10,7,5,0
kc3.arff -> 11,6,9,7,4,0,5,2,3,1	kc3.arff -> 11,6,5,0,10,1,7,2,3,4
labor.arff -> 11,6,9,4,5,2,3,7,0,10	labor.arff -> 2,3,4,7,9,12,11,0,1,5
mc1.arff -> 10,11,6,1,9,7,4,0,5,2	mc1.arff -> 9,10,0,7,1,4,2,11,12,6
mc2.arff -> 11,6,9,7,4,0,12,5,2,3	mc2.arff -> 0,1,6,3,12,5,4,7,9,11
mw1.arff -> 12,1,8,10,11,6,9,7,4,0	mw1.arff -> 7,5,6,12,0,11,1,9,4,8
pc1.arff -> 8,1,12,6,11,10,9,7,4,0	pc1.arff -> 9,11,0,7,10,6,5,1,12,2
pc3.arff -> 6,11,8,9,7,4,0,5,2,3	pc3.arff -> 9,10,7,0,5,6,11,3,4,8
pc4.arff -> 8,10,1,12,6,11,9,7,4,0	pc4.arff -> 11,10,9,7,1,6,0,4,5,12
pima-indians-diabetes.arff -> 6,11,4,1,8,5,7,9,2,0	pima-indians-diabetes.arff -> 6,7,11,12,5,9,1,0,4,3
ring.arff -> 2,7,10,0,9,6,11,4,1,8	ring.arff -> 5,7,9,0,1,4,11,10,2,8
ringnorm.arff -> 7,4,9,10,0,11,1,8,5,2	ringnorm.arff -> 5,7,9,1,4,0,10,11,2,8
saheart.arff -> 11,0,1,8,5,3,7,6,9,4	saheart.arff -> 12,6,3,1,7,0,2,4,5,9
sonar.arff -> 9,10,2,4,12,6,7,0,3,11	sonar.arff -> 10,11,9,7,1,4,0,5,6,12
spambase.arff -> 2,9,6,4,0,12,7,11,3,10	spambase.arff -> 9,7,11,10,1,0,4,6,2,5
spectfheart.arff -> 7,6,4,11,0,1,5,8,12,9	spectfheart.arff -> 6,11,7,9,1,0,10,5,12,4
svmguide3.arff -> 0,6,10,7,11,12,4,1,5,8	svmguide3.arff -> 11,9,5,0,7,1,6,2,4,12
sylva_agnostic.arff -> 4,6,12,0,2,9,7,11,10,1	sylva_agnostic.arff -> 7,9,11,4,8,2,6,0,1,5
sylva_prior.arff -> 10,9,4,7,3,6,12,0,2,5	sylva_prior.arff -> 6,11,9,7,0,8,4,1,10,2
twonorm.arff -> 10,9,5,4,7,11,0,1,8,2	twonorm.arff -> 5,2,3,4,12,0,8,6,1,7
	unbalanced.arff -> 0,1,2,3,4,5,6,7,8,11

unbalanced.arff -> 11,0,1,8,7,6,4,10,3,12 vote.arff -> 11,1,8,9,7,4,2,3,5,6 wdbc.arff -> 11,1,8,9,5,2,7,6,4,12	vote.arff -> 6,11,8,7,0,9,10,5,1,12 wdbc.arff -> 11,6,9,7,1,0,10,4,12,5

6. TPRate

a1a.arff -> 3,6,5,10,4,2,11,9,7,0 ada_agnostic.arff -> 11,9,7,0,8,4,12,10,1,3 ada_prior.arff -> 4,6,5,11,2,9,1,7,0,8 agaricus-lepiota.arff -> 2,4,11,9,10,7,6,0,8,12 australian_scale.arff -> 2,3,6,1,10,11,9,7,5,0 bands.arff -> 8,12,9,0,5,6,1,2,11,3 breast-cancer.arff -> 5,4,2,6,3,11,9,7,0,8 brest-cancer-wisconsin.arff -> 11,9,7,0,8,12,5,1,2,3 chess.arff -> 11,9,7,8,0,12,5,4,1,6 coil2000.arff -> 2,4,1,11,9,7,8,0,12,5 crx.arff -> 11,6,9,7,8,4,0,12,1,3 german.numer_scale.arff -> 11,6,9,7,8,4,0,12,1,5 gina_agnostic.arff -> 11,6,9,7,4,0,12,1,3,5 gina_prior.arff -> 11,6,9,7,8,4,0,12,1,5 heart.arff -> 11,6,9,7,4,0,3,12,1,10 hepatitis.arff -> 11,6,9,7,0,12,1,5,2,3 hiva_agnostic.arff -> 11,6,9,7,8,0,12,1,4,2 housevotes.arff -> 7,9,11,6,0,8,1,4,12,10 ijcnn1.arff -> 10,11,6,8,9,7,4,0,12,1 ionosphere.arff -> 11,6,9,7,4,0,12,1,8,2 jm1.arff -> 8,2,5,11,6,9,7,4,3,0 kc1-class-level-binary.arff -> 2,11,6,10,5,8,9,7,4,0 kc3.arff -> 11,6,9,8,7,4,0,1,12,2 labor.arff -> 11,6,9,8,7,4,0,1,12,2 mc1.arff -> 8,11,5,6,9,7,2,4,3,0 mc2.arff -> 2,11,6,9,7,4,0,1,12,10 mw1.arff -> 2,3,5,10,6,11,9,8,7,4 pc1.arff -> 2,5,6,11,9,8,7,4,0,1 pc3.arff -> 6,11,9,7,4,0,1,12,8,3 pc4.arff -> 10,3,5,2,6,11,9,8,7,4 pima-indians-diabetes.arff -> 11,9,8,7,4,0,1,12,2,3 ring.arff -> 5,10,11,9,8,7,4,0,1,12 ringnorm.arff -> 5,10,11,9,8,7,4,0,1,12 saheart.arff -> 11,9,8,7,4,0,1,12,2,3 sonar.arff -> 10,6,5,11,8,9,7,4,12,0 spambase.arff -> 6,10,5,11,8,9,7,4,12,0 spectfheart.arff -> 11,8,9,7,4,10,12,0,1,2 svmguide3.arff -> 5,11,8,9,7,10,4,12,0,1 sylva_agnostic.arff -> 6,5,11,8,9,7,4,12,0,1 sylva_prior.arff -> 6,10,5,11,8,9,7,4,12,0	a1a.arff -> 7,4,6,11,8,1,5,12,0,2 ada_agnostic.arff -> 6,11,8,7,9,5,1,4,0,2 ada_prior.arff -> 8,6,11,4,0,7,2,1,12,9 agaricus-lepiota.arff -> 10,9,0,4,7,1,11,2,12,6 australian_scale.arff -> 8,6,5,3,12,1,2,4,11,9 bands.arff -> 6,10,5,11,12,2,3,7,8,1 breast-cancer.arff -> 6,5,0,12,8,7,9,3,2,1 brest-cancer-wisconsin.arff -> 3,4,7,0,1,2,6,8,9,11 chess.arff -> 10,9,7,11,4,0,1,6,12,2 coil2000.arff -> 0,1,2,3,4,8,12,11,6,7 crx.arff -> 7,6,12,4,2,0,8,11,1,9 german.numer_scale.arff -> 6,7,5,11,12,4,2,0,9,8 gina_agnostic.arff -> 11,7,6,8,9,4,1,0,5,10 gina_prior.arff -> 7,11,9,10,0,4,1,6,8,2 heart.arff -> 8,5,6,4,12,11,7,1,2,3 hepatitis.arff -> 5,10,12,0,1,7,8,9,4,2 hiva_agnostic.arff -> 4,7,9,2,6,0,1,3,8,12 housevotes.arff -> 6,11,8,9,10,5,12,7,3,4 ijcnn1.arff -> 10,9,7,0,4,11,1,2,3,6 ionosphere.arff -> 5,9,11,7,10,1,12,2,6,0 jm1.arff -> 1,7,11,6,4,0,12,9,2,3 kc1-class-level-binary.arff -> 6,9,11,2,3,5,4,10,7,0 kc3.arff -> 2,3,4,6,8,7,0,11,1,12 labor.arff -> 2,3,4,7,9,12,0,1,11,5 mc1.arff -> 9,0,7,10,4,1,2,11,12,3 mc2.arff -> 0,1,6,3,12,5,4,7,9,2 mw1.arff -> 7,8,3,6,12,0,4,1,2,11 pc1.arff -> 7,9,11,3,8,0,2,6,12,4 pc3.arff -> 3,4,8,1,2,9,6,7,12,11 pc4.arff -> 2,3,8,12,11,1,6,4,9,7 pima-indians-diabetes.arff -> 6,7,11,12,9,5,8,1,0,4 ring.arff -> 5,7,9,0,1,4,11,10,2,8 ringnorm.arff -> 5,7,9,1,4,0,10,11,2,8 saheart.arff -> 12,6,1,7,0,3,9,2,4,5 sonar.arff -> 10,11,9,1,4,7,0,5,6,12 spambase.arff -> 9,7,11,10,1,0,4,6,2,5 spectfheart.arff -> 6,7,11,9,2,3,8,12,0,1 svmguide3.arff -> 11,6,1,0,7,5,2,9,12,4 sylva_agnostic.arff -> 7,9,11,4,8,2,6,0,1,5 sylva_prior.arff -> 6,11,9,7,0,8,4,1,10,2

```
twonorm.arff -> 5,11,8,9,7,4,12,0,1,2        twonorm.arff -> 5,2,3,4,12,0,8,6,1,7
unbalanced.arff -> 11,8,9,7,4,12,0,1,2,3     unbalanced.arff -> 0,1,2,3,4,5,6,7,8,11
vote.arff -> 11,8,9,7,4,12,0,1,2,3           vote.arff -> 6,11,8,7,0,9,10,1,5,12
wdbc.arff -> 11,8,9,7,5,4,12,0,1,2           wdbc.arff -> 11,6,9,7,0,1,10,4,12,5
```

7. TNRate

```
a1a.arff -> 11,4,3,7,12,0,5,10,6,1           a1a.arff -> 5,9,6,7,11,10,0,1,4,12
ada_agnostic.arff ->                         ada_agnostic.arff ->
10,9,11,5,7,0,6,8,3,12                       6,7,10,11,4,5,9,0,12,1
ada_prior.arff -> 5,11,10,9,0,7,2,6,3,1      ada_prior.arff ->
agaricus-lepiota.arff ->                     5,1,12,7,6,4,11,0,2,10
10,6,5,0,1,11,9,4,3,8                        agaricus-lepiota.arff ->
australian_scale.arff ->                     10,9,0,7,4,1,11,2,12,6
10,11,9,1,2,4,12,0,8,7                       australian_scale.arff ->
bands.arff -> 7,6,4,2,9,1,11,12,0,8          3,1,12,2,6,4,8,5,9,11
breast-cancer.arff ->                        bands.arff -> 10,6,9,11,5,7,3,12,0,1
7,9,6,3,10,5,12,0,4,11                       breast-cancer.arff ->
brest-cancer-wisconsin.arff ->               12,6,5,1,11,7,10,0,9,2
6,9,11,12,10,1,8,5,2,7                       brest-cancer-wisconsin.arff ->
chess.arff -> 9,6,2,10,4,3,11,7,12,0         3,4,7,2,0,1,11,9,6,5
coil2000.arff -> 6,10,11,3,5,2,1,8,9,7       chess.arff -> 10,9,11,7,4,0,1,6,12,2
crx.arff -> 7,9,6,10,12,11,1,5,3,4           coil2000.arff -> 10,5,9,6,7,0,1,2,3,4
german.numer_scale.arff ->                   crx.arff -> 6,7,2,4,12,1,9,11,0,8
9,2,11,10,1,12,5,7,0,6                       german.numer_scale.arff ->
gina_agnostic.arff ->                        1,0,9,6,11,7,10,12,5,4
2,4,8,11,5,7,12,9,10,1                       gina_agnostic.arff ->
gina_prior.arff ->                           11,7,6,8,9,4,1,0,5,10
10,4,1,11,5,12,9,7,0,6                       gina_prior.arff ->
heart.arff -> 9,4,10,2,0,1,11,7,5,12         7,11,9,10,0,4,1,6,8,2
hepatitis.arff -> 4,2,3,9,5,12,10,6,1,7      heart.arff -> 8,6,5,4,12,11,1,7,9,2
hiva_agnostic.arff ->                        hepatitis.arff ->
7,4,0,1,10,9,5,8,2,3                         11,10,0,5,12,1,6,9,7,4
housevotes.arff -> 7,11,6,0,10,9,1,3,8,2     hiva_agnostic.arff ->
ijcnn1.arff -> 9,3,5,0,1,7,12,11,6,4         5,10,9,4,11,7,0,1,2,6
ionosphere.arff ->                           housevotes.arff ->
0,10,9,5,7,1,12,11,2,6                       6,11,8,9,10,5,12,3,7,4
jm1.arff -> 9,5,6,7,11,0,10,4,2,1            ijcnn1.arff -> 10,9,0,4,7,1,11,2,3,6
kc1-class-level-binary.arff ->               ionosphere.arff ->
5,7,0,1,11,10,2,9,12,6                       5,9,11,7,1,0,2,10,12,4
kc3.arff -> 9,7,12,6,3,0,4,11,1,2            jm1.arff -> 10,9,5,7,4,11,2,1,6,0
labor.arff -> 11,1,9,0,7,12,6,5,3,10         kc1-class-level-binary.arff ->
mc1.arff -> 10,11,6,0,5,1,7,9,12,3           2,3,9,4,11,6,0,1,10,7
mc2.arff -> 10,9,6,4,3,0,7,2,5,8            kc3.arff -> 5,10,11,6,9,0,1,7,2,3
mw1.arff -> 4,2,9,8,7,3,1,0,11,6            labor.arff -> 2,3,4,7,9,12,11,0,1,5
pc1.arff -> 10,8,9,0,5,2,11,7,4,6           mc1.arff -> 10,5,9,0,1,7,4,2,11,12
pc3.arff -> 10,9,5,4,0,11,2,1,3,7           mc2.arff -> 0,1,3,6,12,11,5,7,4,9
pc4.arff -> 2,12,4,0,10,9,8,11,1,5          mw1.arff -> 5,10,11,7,6,12,0,1,9,4
pima-indians-diabetes.arff ->               pc1.arff -> 10,5,9,0,11,1,7,12,6,4
1,4,5,8,3,2,12,10,11,9                       pc3.arff -> 10,9,5,7,0,6,11,3,4,8
ring.arff -> 1,5,4,12,2,3,8,10,11,9         pc4.arff -> 10,11,7,9,0,6,1,4,5,12
ringnorm.arff -> 0,4,5,2,1,8,12,6,3,10      pima-indians-diabetes.arff ->
saheart.arff -> 6,3,10,11,9,7,0,12,2,8      11,6,7,1,12,5,0,3,9,10
sonar.arff -> 5,12,4,10,8,11,9,6,7,1        ring.arff -> 5,7,9,0,1,4,11,10,2,8
spambase.arff -> 3,8,5,12,4,2,10,11,9,6     ringnorm.arff -> 5,7,9,1,4,0,10,11,2,8
spectfheart.arff ->                         saheart.arff -> 3,12,6,0,7,1,2,5,4,9
1,4,12,2,8,10,11,9,6,5                       sonar.arff -> 10,11,9,1,7,0,4,3,5,12
svmguide3.arff -> 5,4,8,6,12,1,2,3,10,11    spambase.arff -> 9,7,10,11,1,0,4,5,6,2
sylva_agnostic.arff ->                      spectfheart.arff ->
5,8,12,1,2,4,10,11,9,6                       5,11,6,10,1,9,7,0,4,12
                                            svmguide3.arff -> 9,11,5,10,7,0,2,1,4,6
```

```
sylva_prior.arff ->               sylva_agnostic.arff ->
6,5,4,3,0,12,2,1,8,10             3,5,11,12,7,1,9,4,2,6
twonorm.arff -> 5,4,12,8,1,2,3,10,11,9   sylva_prior.arff ->
unbalanced.arff ->                6,11,7,0,9,3,4,10,8,1
1,10,5,11,4,12,2,9,6,3            twonorm.arff -> 5,2,3,4,12,0,8,6,1,7
vote.arff -> 3,5,1,4,12,10,2,11,9,6   unbalanced.arff -> 10,0,1,2,3,4,5,6,7,8
wdbc.arff -> 5,10,11,9,7,0,6,4,12,1   vote.arff -> 6,8,11,7,0,10,5,9,3,12
                                  wdbc.arff -> 11,6,9,7,1,0,10,4,12,5
```

8. FPRate

```
a1a.arff -> 3,6,9,7,11,8,5,1,12,4      a1a.arff -> 3,8,2,12,4,1,0,10,11,7
ada_agnostic.arff ->                   ada_agnostic.arff ->
2,8,1,4,12,3,6,0,11,10                 3,8,2,1,12,0,9,5,4,11
ada_prior.arff -> 2,4,8,0,1,12,11,10,3,9   ada_prior.arff -> 3,8,9,10,2,0,11,4,6,7
agaricus-lepiota.arff ->               agaricus-lepiota.arff ->
8,0,9,10,3,12,5,2,6,1                  3,8,5,6,12,2,11,1,4,7
australian_scale.arff ->               australian_scale.arff ->
12,3,4,5,6,7,8,2,11,1                  10,7,0,11,9,5,8,4,6,2
bands.arff -> 5,3,8,6,0,7,1,10,12,4    bands.arff -> 8,4,2,1,0,12,3,7,5,11
breast-cancer.arff ->                  breast-cancer.arff ->
3,8,5,2,6,9,12,7,0,4                   8,3,4,2,9,0,10,7,11,1
brest-cancer-wisconsin.arff ->         brest-cancer-wisconsin.arff ->
2,4,1,8,10,12,11,3,9,6                 10,12,8,5,6,9,11,0,1,2
chess.arff -> 3,6,7,12,8,4,11,5,1,10   chess.arff -> 3,5,8,2,12,6,1,0,4,7
coil2000.arff -> 8,0,12,3,10,6,1,7,5,4   coil2000.arff -> 11,0,1,2,3,4,8,12,7,6
crx.arff -> 8,4,0,9,3,10,12,5,2,6      crx.arff -> 10,5,3,8,0,11,1,9,12,4
german.numer_scale.arff ->             german.numer_scale.arff ->
3,8,5,6,2,1,11,7,10,12                 3,8,2,4,5,12,10,7,11,6
gina_agnostic.arff ->                  gina_agnostic.arff ->
3,5,2,6,1,11,7,10,0,8                  3,2,12,10,5,0,1,4,9,8
gina_prior.arff -> 8,3,9,12,4,5,0,2,6,1   gina_prior.arff ->
heart.arff -> 3,5,2,6,1,11,7,9,8,0     3,12,5,2,8,6,1,4,0,10
hepatitis.arff -> 3,9,0,8,2,11,10,5,4,7   heart.arff -> 10,0,2,3,9,7,1,11,12,4
hiva_agnostic.arff ->                   hepatitis.arff -> 2,3,8,4,7,9,6,1,12,5
7,5,1,6,3,2,0,4,9,11                   hiva_agnostic.arff ->
housevotes.arff -> 8,4,12,6,2,9,3,7,5,10   3,8,12,6,2,1,0,7,11,4
ijcnn1.arff -> 8,10,7,11,6,1          housevotes.arff ->
ionosphere.arff -> 3,7,11,4,0,1,9,2,10,6   1,0,2,4,7,3,5,12,10,9
jm1.arff -> 3,2,12,4,7,0,1,11,5,10     ijcnn1.arff -> 5,3,6,8,12,2,11,1,7,4
kc1-class-level-binary.arff ->         ionosphere.arff ->
2,7,1,12,4,8,3,6,11,0                  8,3,6,4,12,10,2,0,1,7
kc3.arff -> 11,8,3,6,0,12,10,5,2,1     jm1.arff -> 3,8,12,0,6,1,2,11,4,7
labor.arff -> 4,2,5,8,3,12,0,7,11,1    kc1-class-level-binary.arff ->
mc1.arff -> 4,3,2,0,6,1,12,11,7,9      8,12,5,7,10,0,1,6,11,4
mc2.arff -> 9,2,4,12,6,7,1,10,11,3     kc3.arff -> 12,2,3,4,8,7,1,0,9,6
mw1.arff -> 7,11,12,6,4,2,1,8,0,9      labor.arff -> 8,10,6,5,0,1,11,12,2,3
pc1.arff -> 3,12,6,7,1,4,2,11,0,5      mc1.arff -> 3,8,6,12,11,2,4,7,1,0
pc3.arff -> 0,6,2,9,11,12,3,4,10,7     mc2.arff -> 8,2,10,9,4,7,5,11,12,6
pc4.arff -> 3,12,0,11,9,6,5,1,8,7      mw1.arff -> 2,3,8,4,9,1,0,6,12,7
pima-indians-diabetes.arff ->          pc1.arff -> 3,8,2,4,6,12,7,1,11,0
0,7,6,9,11,10,12,5,3,8                 pc3.arff -> 12,2,1,3,4,8,11,6,0,7
ring.arff -> 0,7,6,9,11,10,3,2,8,12    pc4.arff -> 2,3,8,12,5,4,1,6,0,9
ringnorm.arff -> 0,7,6,9,11,10,1,12,3,8   pima-indians-diabetes.arff ->
saheart.arff -> 1,2,4,5,0,8,12,7,6,9   8,2,4,10,9,3,0,5,12,1
sonar.arff -> 5,3,1,0,7,6,9,11,4,10    ring.arff -> 3,6,12,8,2,10,11,4,1,0
spambase.arff -> 3,5,0,7,6,9,2,11,10,4   ringnorm.arff -> 3,6,12,8,2,11,10,0,4,1
spectfheart.arff ->                     saheart.arff -> 8,11,10,9,4,5,2,1,7,0
5,3,0,7,6,9,11,10,2,8                  sonar.arff -> 8,2,6,12,5,3,4,0,7,1
svmguide3.arff -> 3,0,7,6,9,11,10,2,12,8   spambase.arff -> 8,3,12,2,6,5,4,0,1,11
```

```
sylva_agnostic.arff ->                    spectfheart.arff ->
3,0,8,7,6,9,11,5,12,10                    2,3,8,12,4,0,7,9,1,10
sylva_prior.arff ->                       svmguide3.arff -> 8,3,12,6,4,1,2,0,7,10
0,7,6,9,11,10,1,8,12,2                    sylva_agnostic.arff ->
twonorm.arff -> 0,7,6,9,11,10,12,8,3,4    8,10,0,6,2,4,9,1,7,12
unbalanced.arff ->                        sylva_prior.arff ->
3,8,9,10,4,2,0,12,7,11                    12,2,5,1,8,10,4,3,9,0
vote.arff -> 8,0,7,6,9,4,12,2,10,5        twonorm.arff -> 10,11,9,7,1,6,8,0,2,3
wdbc.arff -> 3,2,1,4,8,12,11,5,0,7        unbalanced.arff -> 9,0,1,2,3,4,5,6,7,8
                                          vote.arff -> 4,2,1,12,3,9,5,10,0,7
                                          wdbc.arff -> 8,2,3,5,12,4,10,0,1,7
```

9. FNRate

```
a1a.arff -> 12,1,0,7,9,11,8,4,5,6          a1a.arff -> 3,10,9,2,0,12,5,1,8,11
ada_agnostic.arff ->                       ada_agnostic.arff ->
1,5,2,3,8,12,0,7,4,9                       3,10,12,2,0,4,1,5,9,7
ada_prior.arff -> 10,12,1,0,7,9,2,11,8,5   ada_prior.arff -> 3,10,5,9,12,1,2,7,0,4
agaricus-lepiota.arff ->                   agaricus-lepiota.arff ->
3,12,1,0,7,5,9,11,8,2                      3,8,5,6,12,2,11,1,4,7
australian_scale.arff ->                   australian_scale.arff ->
12,5,0,2,4,7,9,11,1,8                      10,7,0,9,11,4,2,1,3,12
bands.arff -> 4,0,3,9,11,1,8,10,2,7        bands.arff -> 0,4,9,1,2,3,7,8,12,11
breast-cancer.arff ->                      breast-cancer.arff ->
6,12,0,7,1,9,11,4,10,3                     10,4,11,1,2,3,9,7,8,12
brest-cancer-wisconsin.arff ->            brest-cancer-wisconsin.arff ->
5,10,8,6,4,3,2,12,0,1                      5,12,10,11,9,0,1,2,6,8
chess.arff -> 3,6,4,8,2,10,1,5,12,0        chess.arff -> 3,5,8,2,12,6,1,0,4,11
coil2000.arff -> 10,3,12,0,2,7,9,5,1,11    coil2000.arff -> 10,5,9,7,6,11,0,1,2,3
crx.arff -> 10,8,5,3,2,1,12,0,4,7          crx.arff -> 10,5,3,1,9,8,11,0,2,4
german.numer_scale.arff ->                 german.numer_scale.arff ->
10,8,5,6,3,2,1,12,0,4                      10,1,3,8,9,0,2,4,12,5
gina_agnostic.arff ->                      gina_agnostic.arff ->
10,5,6,8,3,2,1,12,0,4                      3,12,2,10,0,5,1,4,9,8
gina_prior.arff -> 8,5,10,3,2,1,12,0,4,7   gina_prior.arff ->
heart.arff -> 5,3,2,8,1,12,0,4,7,9         3,12,5,2,8,6,1,4,0,10
hepatitis.arff -> 10,8,5,2,3,6,1,12,0,4    heart.arff -> 10,0,2,3,9,1,7,11,12,4
hiva_agnostic.arff ->                      hepatitis.arff -> 2,3,6,11,4,0,1,7,8,9
8,10,2,5,3,1,12,0,4,7                      hiva_agnostic.arff ->
housevotes.arff -> 8,6,10,3,5,2,12,1,0,4   5,10,11,3,8,12,1,0,6,2
ijcnn1.arff -> 3,5,2,12,1,0,10,4,7,9       housevotes.arff ->
ionosphere.arff -> 10,3,5,8,6,2,1,12,0,4   1,0,2,4,3,7,5,12,10,9
jm1.arff -> 3,10,5,2,1,12,0,4,7,9          ijcnn1.arff -> 5,3,6,8,12,2,1,11,4,0
kc1-class-level-binary.arff ->             ionosphere.arff ->
2,1,12,0,4,7,9,10,11,5                     8,3,4,0,6,2,12,1,7,10
kc3.arff -> 8,10,12,3,6,5,2,1,0,4          jm1.arff -> 10,5,3,8,2,9,0,12,4,6
labor.arff -> 9,12,7,10,8,3,5,2,1,0        kc1-class-level-binary.arff ->
mc1.arff -> 5,12,6,2,1,0,4,7,9,10          8,12,0,1,7,4,10,2,3,5
mc2.arff -> 3,10,8,5,2,12,1,0,4,7          kc3.arff -> 10,5,9,12,1,0,11,7,2,3
mw1.arff -> 2,12,1,0,4,7,9,8,11,6          labor.arff -> 8,10,6,5,0,1,11,2,3,4
pc1.arff -> 10,2,12,1,0,4,7,9,11,6         mc1.arff -> 5,3,6,8,12,11,1,2,4,10
pc3.arff -> 10,8,3,2,12,1,0,4,7,9          mc2.arff -> 10,11,8,2,9,7,4,5,3,12
pc4.arff -> 2,12,1,0,4,7,9,11,5,3          mw1.arff -> 10,9,5,11,1,2,0,4,3,6
pima-indians-diabetes.arff ->              pc1.arff -> 5,10,1,4,12,6,2,0,3,8
10,3,5,2,12,1,0,4,7,8                      pc3.arff -> 5,10,0,11,12,6,7,2,9,1
ring.arff -> 10,3,2,12,1,0,4,7,8,9         pc4.arff -> 10,0,5,7,4,9,6,1,11,12
ringnorm.arff -> 3,2,5,12,1,0,4,7,8,9      pima-indians-diabetes.arff ->
saheart.arff -> 10,3,5,2,12,1,0,4,7,8      3,10,2,4,0,1,8,5,9,12
sonar.arff -> 3,2,1,0,12,4,7,9,8,11        ring.arff -> 3,6,12,8,2,10,11,4,1,0
spambase.arff -> 3,10,2,1,0,12,4,7,9,8     ringnorm.arff -> 3,6,12,8,2,11,10,0,4,1
                                           saheart.arff -> 10,11,8,5,2,4,3,9,0,7
```

```
spectfheart.arff ->                    sonar.arff -> 2,3,8,12,5,6,0,1,4,7
10,3,5,2,1,0,12,4,7,9                   spambase.arff -> 8,3,12,5,2,6,4,0,1,10
svmguide3.arff -> 3,5,2,1,0,12,4,7,9,8  spectfheart.arff ->
sylva_agnostic.arff ->                  5,10,4,1,0,12,2,3,8,9
3,5,2,1,0,12,4,7,9,8                    svmguide3.arff -> 10,3,8,4,12,2,9,5,7,0
sylva_prior.arff -> 3,5,2,1,0,12,4,7,9,8 sylva_agnostic.arff ->
twonorm.arff -> 3,5,2,1,0,12,4,10,7,9   3,12,10,5,1,0,6,2,8,4
unbalanced.arff -> 10,3,5,2,1,0,12,4,7,9 sylva_prior.arff ->
vote.arff -> 10,3,5,2,1,0,12,4,7,9      5,3,12,2,10,1,4,8,0,7
wdbc.arff -> 10,3,5,2,1,0,12,4,7,9      twonorm.arff -> 10,11,9,1,7,6,0,8,2,3
                                        unbalanced.arff -> 10,9,0,1,2,3,4,5,6,7
                                        vote.arff -> 3,4,2,12,1,5,10,9,0,7
                                        wdbc.arff -> 2,3,8,5,4,12,0,1,10,7
```

Total 13 algorithms (0-12) top 10 ranking presented and compared on different performance measures.