

## PROGRAMMING ASSIGNMENT 2

BY

Ram Kaushik Nallani ( rnallani@indiana.edu )

Prudhvi Indana (vindana@indiana.edu)

1. Bagging : Depth = 3 , Bags = 5:

	Predicted : NO	Predicted : YES
Actual No	TN = 1593	FN = 0
Actual YES	FP = 532	TP = 0

2. Bagging : Depth = 3 , bags = 10 :

	Predicted : NO	Predicted : YES
Actual No	TN = 1593	FN = 0
Actual YES	FP = 532	TP = 0

3. Bagging : Depth = 5, bags = 5

	Predicted : NO	Predicted : YES
Actual No	TN = 1593	FN = 0
Actual YES	FP = 532	TP = 0

4. Bagging : Depth = 5, bags = 10

	Predicted : NO	Predicted : YES
Actual No	TN = 1593	FN = 0
Actual YES	FP = 532	TP = 0

5. Boosting results : Number of Trees = 5 , depth = 1

	Predicted : NO	Predicted : YES
Actual No	TN = 1592	FN = 0
Actual YES	FP = 533	TP = 0

6. Boosting results : Number of Trees = 10 , depth = 1

	Predicted : NO	Predicted : YES
Actual No	TN = 1629	FN = 0
Actual YES	FP = 496	TP = 0

7. Boosting results : Number of Trees = 5 , depth = 2

	Predicted : NO	Predicted : YES
Actual No	TN = 1629	FN = 0
Actual YES	FP = 496	TP = 0

8. Boosting results : Number of Trees = 10 , depth = 2

	Predicted : NO	Predicted : YES
Actual No	TN = 1592	FN = 0
Actual YES	FP = 533	TP = 0

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### Bagging in WEKA RESULTS

=== Evaluation on test set ===

1. For bags : 3, 5

*Test:*

=== Confusion Matrix ===

```
a  b  <-- classified as
2093  0 |  a = 0
28   4 |  b = 1
```

2. For bags 3,10 :

*Test:*

=== Confusion Matrix ===

```

a  b <-- classified as
2093  0 |  a = 0
24   8 |  b = 1

```

3. For bag 5,5 :

*Test:*

=== Confusion Matrix ===

```

a  b <-- classified as
2093  0 |  a = 0
0   32 |  b = 1

```

4) for bags 5,10:

*Test:*

=== Confusion Matrix ===

```

a  b <-- classified as
2093  0 |  a = 0
0   32 |  b = 1

```

## Boosting in WEKA RESULTS

5) Boosting :

Boost for 1,5 combination:

*Test:*

=== Confusion Matrix ===

```

a  b <-- classified as
2093  0 |  a = 0
32   0 |  b = 1

```

6)Boost for 1 10 combination:

*Test:*

=== Confusion Matrix ===

```

a  b <-- classified as
2093  0 |  a = 0
0   32 |  b = 1

```

7)Boost for 2, 5 combination :

=== Confusion Matrix ===

```
  a   b  <-- classified as
2093  0 |   a = 0
  0 32 |   b = 1
```

8) boost for 2,10 combination:

*Test:*

=== Confusion Matrix ===

```
  a   b  <-- classified as
2093  0 |   a = 0
  0 32 |   b = 1
```