

Questions of confusion metrics of Gaussian NB reports

1. What is the overall performance of Gaussian NB?
Accuracy = 0.90
2. What is the correct classification of not purchased?
Recall = 0.94
3. What is the correct classification of purchased?
Recall = 0.84
4. What is the recall of 0?
Recall = 0.94
5. What is the precision of 1?
Precision = 0.89
6. What is the overall not purchased?
Support = 85
7. What is the sum of percentage correctly classified as not purchased and wrongly classified as not purchased in the test set?
Precision = 0.89
8. What is the overall performance of purchased and not purchased
F1 measure
Purchased = 0.86
Not purchased = 0.92
9. What is the average performance of precision?
Macro avg precision = 0.88
10. What is the average performance of recall?
Macro avg recall = 0.90
11. What is the average performance of f1 measure?
Macro avg f1 measure = 0.89

12. What is the sum of product of proportion rate (weight) of precision class?
Weighted avg precision = 0.90
13. What is the sum of product of proportion rate (weight) of recall class?
Weighted avg recall = 0.90
14. What is the sum of product of proportion rate (weight) of f1 measure class?
Weighted avg recall = 0.90

Questions of confusion metrics of Multinomial NB reports

1. What is the overall performance of Multinomial NB?
Accuracy = 0.63
2. What is the correct classification of not purchased?
Recall = 1.00
3. What is the correct classification of purchased?
Recall = 0.00
4. What is the recall of 0?
Recall = 1.00
5. What is the precision of 1?
Precision = 0.00
6. What is the overall not purchased?
Support = 85
7. What is the sum of percentage correctly classified as not purchased and wrongly classified as not purchased in the test set?
Precision = 0.63
8. What is the overall performance of purchased and not purchased
F1 measure

Purchased = 0.00

Not purchased = 0.78

9. What is the average performance of precision?

Macro avg precision = 0.32

10. What is the average performance of recall?

Macro avg recall = 0.50

11. What is the average performance of f1 measure?

Macro avg f1 measure = 0.39

12. What is the sum of product of proportion rate (weight) of precision class?

Weighted avg precision = 0.40

13. What is the sum of product of proportion rate (weight) of recall class?

Weighted avg recall = 0.63

14. What is the sum of product of proportion rate (weight) of f1 measure class?

Weighted avg recall = 0.49

Questions of confusion metrics of Bernoulli NB reports

1. What is the overall performance of Bernoulli NB?

Accuracy = 0.63

2. What is the correct classification of not purchased?

Recall = 1.00

3. What is the correct classification of purchased?

Recall = 0.00

4. What is the recall of 0?

Recall = 1.00

5. What is the precision of 1?
Precision = 0.00
6. What is the overall not purchased?
Support = 85
7. What is the sum of percentage correctly classified as not purchased and wrongly classified as not purchased in the test set?
Precision = 0.63
8. What is the overall performance of purchased and not purchased
F1 measure
Purchased = 0.00
Not purchased = 0.73
9. What is the average performance of precision?
Macro avg precision = 0.32
10. What is the average performance of recall?
Macro avg recall = 0.50
11. What is the average performance of f1 measure?
Macro avg f1 measure = 0.39
12. What is the sum of product of proportion rate (weight) of precision class?
Weighted avg precision = 0.40
13. What is the sum of product of proportion rate (weight) of recall class?
Weighted avg recall = 0.63
14. What is the sum of product of proportion rate (weight) of f1 measure class?
Weighted avg recall = 0.49

Questions of confusion metrics of Categorical NB reports

1. What is the overall performance of categorical NB?
Accuracy = 0.84
2. What is the correct classification of not purchased?
Recall = 0.96
3. What is the correct classification of purchased?
Recall = 0.63
4. What is the recall of 0?
Recall = 0.96
5. What is the precision of 1?
Precision = 0.91
6. What is the overall not purchased?
Support = 85
7. What is the sum of percentage correctly classified as not purchased and wrongly classified as not purchased in the test set?
Precision = 0.91
8. What is the overall performance of purchased and not purchased
F1 measure
Purchased = 0.89
Not purchased = 0.75
9. What is the average performance of precision?
Macro avg precision = 0.87
10. What is the average performance of recall?
Macro avg recall = 0.80
11. What is the average performance of f1 measure?
Macro avg f1 measure = 0.82

12. What is the sum of product of proportion rate (weight) of precision class?
Weighted avg precision = 0.85
13. What is the sum of product of proportion rate (weight) of recall class?
Weighted avg recall = 0.84
14. What is the sum of product of proportion rate (weight) of f1 measure class?
Weighted avg recall = 0.84

Questions of confusion metrics of Complement NB reports

1. What is the overall performance of complement NB?
Accuracy = 0.51
2. What is the correct classification of not purchased?
Recall = 0.47
3. What is the correct classification of purchased?
Recall = 0.59
4. What is the recall of 0?
Recall = 0.47
5. What is the precision of 1?
Precision = 0.39
6. What is the overall not purchased?
Support = 85
7. What is the sum of percentage correctly classified as not purchased and wrongly classified as not purchased in the test set?
Precision = 0.67
8. What is the overall performance of purchased and not purchased
F1 measure

Purchased = 0.47

Not purchased = 0.55

9. What is the average performance of precision?

Macro avg precision = 0.53

10. What is the average performance of recall?

Macro avg recall = 0.53

11. What is the average performance of f1 measure?

Macro avg f1 measure = 0.51

12. What is the sum of product of proportion rate (weight) of precision class?

Weighted avg precision = 0.57

13. What is the sum of product of proportion rate (weight) of recall class?

Weighted avg recall = 0.51

14. What is the sum of product of proportion rate (weight) of f1 measure class?

Weighted avg recall = 0.52