DATA 621—Assignment no. 2

Critical Thinking Group 2 October 10, 2019

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Executive Overview

We explore metrics to evaluate the performance of classification algorithms, including custom R functions, on a real dataset:

- Accuracy
- Classification error rate
- Precision
- Sensitivity
- F1 score
- ROC curve

We also examine the functionality of the caret and pROC packages.

- 2. Confusion matrix
- 3. Accuracy
- 4. Classification error rate
- 5. Precision

[BEN]

6. Sensitivity

[BEN]

- 7. Specificity
- 8. F1 score

[BEN]

- 9. F1 score: Bounds
- 10. ROC curve
- 11. In Practice
- 12. caret package
- 13. pROC package