**I&C SCI X427 - Fundamentals of Data Science**

**Final Data Science Report**

**Your Title for Your Report**

**Due Date**

**Month Day, Year**

**By**

**Student Name**

# Executive Summary

Write a one-page executive summary right after the cover page. This is where the assignment is summarized and the takeaways are discussed.

# Title of Paper

Include a short introduction paragraph here. The rest of the document should follow the CRISP-DM process steps as major headings.

## Business Understanding

Briefly discuss the nature of the problem, its significance, and the problem being addressed.

## Data Understanding

Briefly discuss the source and structure of the data.

## Data Preprocessing

List and Discuss the data preprocessing steps you have implemented. For clean and well-organized data, there may not be much to list and discuss here. This section should end with the final dataset variables and their descriptions presented in a table.

## Modeling

This is where you discuss and show (with screenshots) your machine learning models, their specifications, and prediction results. The results for the classification model should include accuracy, sensitivity, specificity, and Area under the ROC curve, and for the regression, mean absolute error (MAE) and R-square.

## Evaluation

Briefly discuss how the model results relate to addressing the business problem defined in the first phase.

## Deployment

Briefly discuss how these project outcomes can be deployed within the organization for smarter decision making.

## Summary and Conclusion

Provide your own opinions about the project, related challenges faced and overcome, and lessons learned.