Exam PA June 22, 2021 Project Report Template

**Instructions to Candidates: Please remember to avoid using your own name within this document or when naming your file. There is no limit on page count.**

**Also, be sure all the documents you are working on have June 22 and your candidate number included in the file name.**

As indicated in the instructions, work on each task should be presented in the designated section for that task.

## Task 1 – Assess the data sources (12 points)

## Task 2 – Interpret the graphs (12 points)

## Task 3 – Explain work on the Cost variable (12 points)

## Task 4 – Consider regression trees (7 points)

## Task 5 – Explore correlations and PCA (8 points)

## Task 6 – Discuss dimension reduction techniques (8 points)

## Task 7 – Consider two transformations of the Age variable (9 points)

## Task 8 – Consider two models and their respective targets (8 points)

## Task 9 – Explain the problem with unbalanced classes (5 points)

## Task 10 – Discuss undersampling and oversampling (5 points)

## Task 11 – Implement oversampling and explain the confusion matrix (14 points)