**Goals for Macquarie University Hackathon for Navigator Group**

*Introduction*

The intent of the hackathon is to systematically test machine learning and artificial intelligence models to predict *“gross incurred cost”* of workers compensation claims on the basis of psychosocial and demographic data. The end use of these models will be to inform strategies to better manage psychosocial factors that influence these insurance claims.

For each team the tasks are as follows:

1. Compete the allocated systematic modelling task.
2. From insights generated, to produce the best possible predictive models.
3. To develop an interaction interface for a data pipeline.
4. To build a simple user interface for inputting individual cases and reporting the probable gross incurred costs and other DV’s. Ideally this will allow collation and exporting of cases in a batch.

*Data*

The data set consists of 71 columns of data from 552-cases. Each case consists of onboarding data of psychosocial screening and the claims cost data. Table 1 outlines each of the variables and their relevance. The goal is to predict BO-BQ, BR, BS, Y, Z, & AA-AC.