How to Make More Money!

The was preprocessed first. After some feature engineering and modelling it was determined that an XGBoost algorithm has the best predictive power. An XGBoost model was fit and used to predict the test data. The graph below depicts the important parameters in the fitted model. These parameters were the most influential in making the nodes of the trees in the model more "pure".
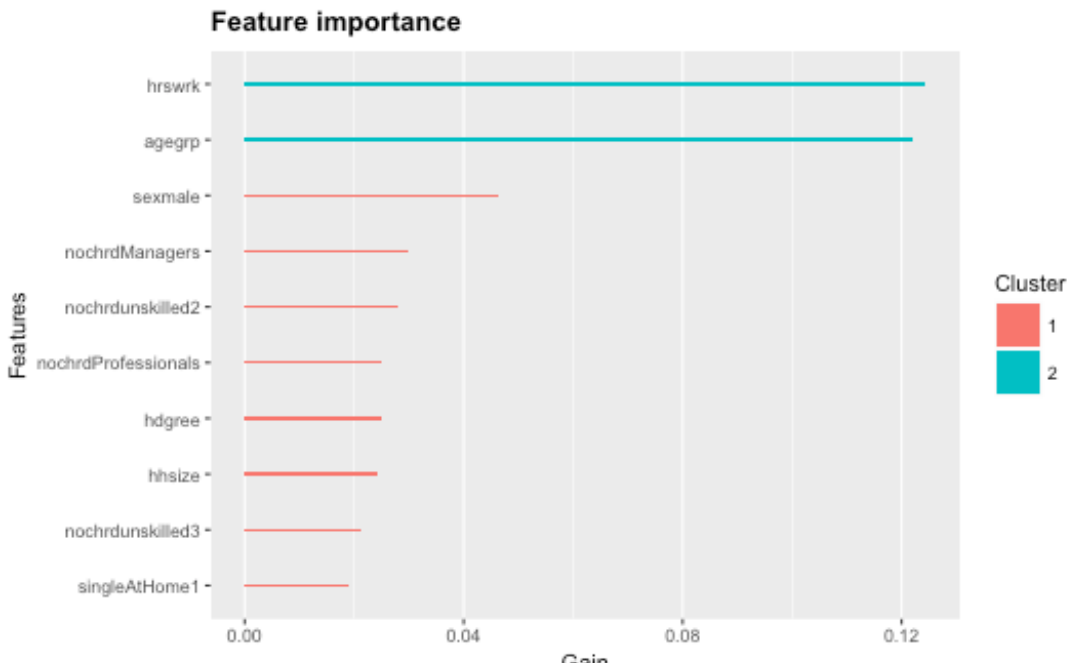

Figure 1. Unskilled2: Other_manual_workers Other_sales_and_service_personnel

Unskilled3: Intermediate_sales_and_service_personnel.

The most important parameters in determining whether your income is above $60,000 are:
Hours worked per week: The more you work, the more you'll make
Age group: 61% of people aged 50-55 made more than 60k/year. This proportion decreases for people younger or older
Sex: 57% of males made more than 60k/year, but only 36% of the females.
Manager: Nearly 70% of Managers made 60k/year.
Hdgree: 69% of people with doctorate degrees made more than 60k/year.
Single at home: only 29% of signles who lived at home made more than 60K/year.