Data Quality Report

Initial Findings

Continuous Features:

- 1. There is a very high number of customers who use very few minutes
- 2. People rarely keep their handset past 18 or 24 months
- 3. The largest chunk of customers are in pay grade 7/10 (6/9)
- 4. The largest chunk of customers are churned after ~12 months (when contract ends)
- 5. Out of ~40 retention calls, ~20 retention offers were accepted such that the retention rate from retention calls is about 50%
- 6. There are quite a few outliers who have their handsets for longer than three years some even longer than four years.
- 7. Very few people incur roaming charges due to phone calls made abroad
 - a. Can be used to market free roaming to incentivise more customers, could cost little for calls
- 8. Customers experience dropped calls frequently

Categorical Features:

- There are a significant number of customer accounts lacking information especially occupation, region type, and marriage status. This information could be useful to market data analysis
- Most of the customers live in a suburban area, followed by town people. It would be beneficial to ascertain which region types the unknown category reside in. The majority of these customers *could* reside in rural region types that could greatly impact this result
- 3. Finding out the marriage status of the customers could be beneficial. It is possible to direct curated advertising to customers with a specific attribute (as Andrew Pole did in 2002 for Target in USA)
- 4. A small number of customers have no smart phones. Converting these customers to smart phone plans will increase monthly revenue from these customers
- 5. About ⅓ of customers are homeowners, there is a possibility that a significant number of non-homeowners are in long-term leases. Providing a broadband service for the demographic of those owning homes or renting could be possible. More details are needed to discern what proportion of non-homeowners could become broadband customers
- 6. The churn rate is **too** high for this company. Without a doubt seeding funds into a bigger retention team would be incredibly beneficial