

MyFitnessPal

- API Requested from Singapore Management University
- Dataset Includes:
 - o Dates from Sept. 2014 Apr. 2015
 - 587,187 days of food diary records logged by 9.9K MyFitnessPal users



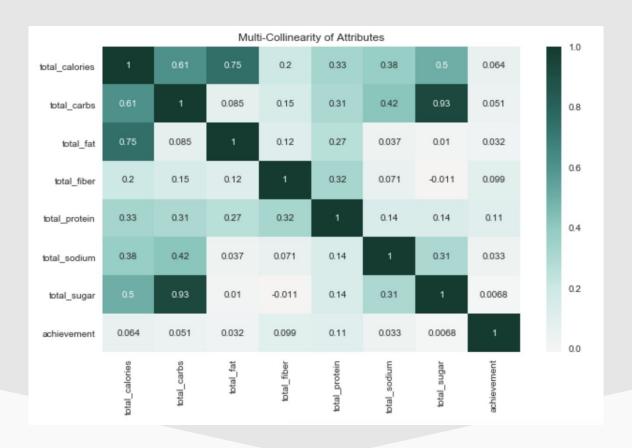
Business Case

- 1. Can we predict when or if a user decides to churn or quit using an app?
- 2. Is there a certain attribute that contributes to a user quitting the platform?

Data Preparation

- Cleaning Nested Dictionaries
- Timeline Factorization
- Feature Analysis

Multi-Collinearity of Attributes

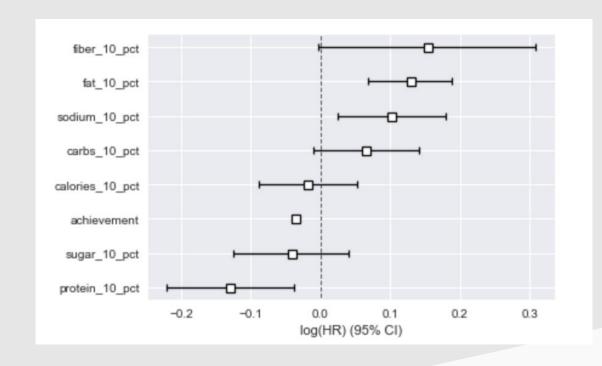


Survival Regression Analysis

Regression model: concordance = 0.65

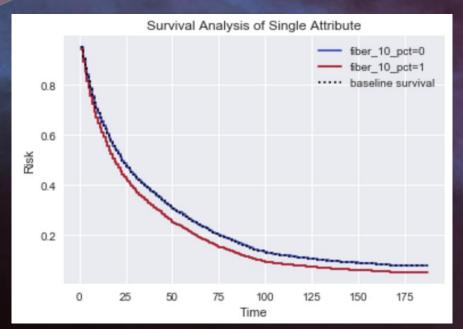
events: 7107 users

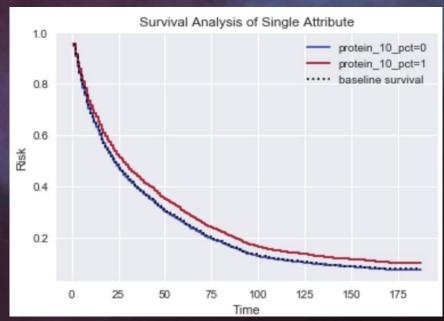
censored: 2789 users



Fiber

Protein



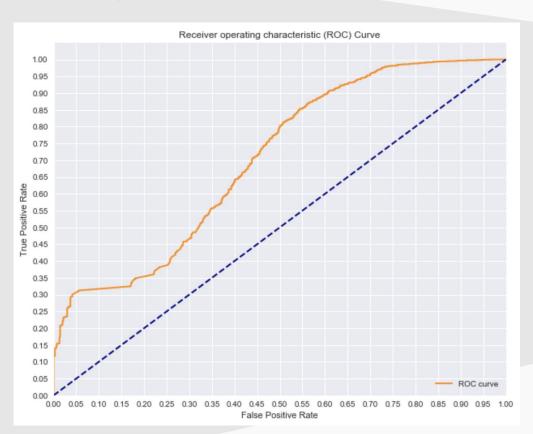


1 = Churned

0 = Still using the program

Logistic Regression

ROC Curve AUC score = 0.70

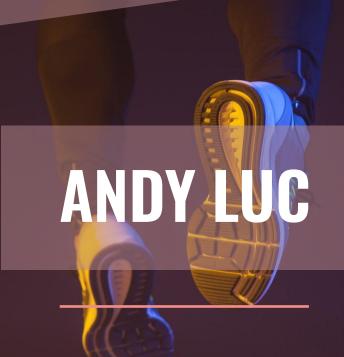


Next Steps:

- Acquire more user data to greatly improve regression models
- Cluster using K-Means to find similarly related groups
- Enhance knowledge behind survival regression model



Any Questions?



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