Case Study 3: Team 3

Phuc Nyugen, Ezinne Nwankwo, Frances Hung

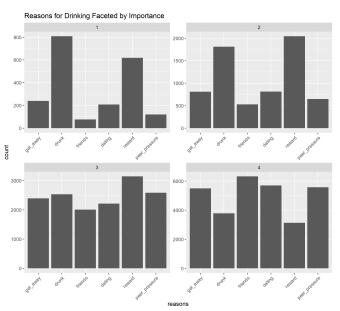
2/16/2020

Introduction

Data Cleaning

- ▶ Indicator Variables for NA answers to categorical data
- ► Zero-imputation for NA answers to ordinal data (if sensible)

EDA: Drinking Habits



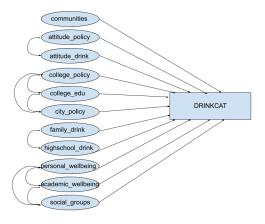
EDA: Elastic Net

- ► Heavy Drinking (+)
 - ▶ Importance of parties in college experience
 - Disruptive/loud drinking
 - ▶ Opinion on off-campus bar (# acceptable drinks)
 - % friends who are binge drinkers
 - HS binge behavior in senior year

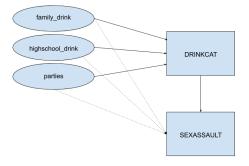
Dimension Reduction

- Grouping into Latent Factors
- ► Factors: Correlated and Interpretable
- Ordinal predictors for each factor

Latent Variable Model



SEM



Discussion