Project McNulty Proposal

Topic:

Predicting the Future Change in Individual Cost or Existence of ACA Health Exchange Plans

Domain:

The primary data used to find a solution to the problem addressed by this project will come from the United States Federal government's Department of Health and Human Services and will focus on plans on the Health Insurance Exchange created by the Affordable Care Act (ACA). In addition, economic data on each county will be found in data from the Department of Labor. Furthermore, demographic data will be found in Census data provided by the Department of Commerce.

An MVP will seek to classify whether, based on the previous year's plan data, an individual health plan will either increase in price by a low amount (less than 10%), increase in price by a moderate amount (between 10% and 20%), increase in height by a high amount (greater than 20%), decrease in price, or cease to exist.

Data:

Some of the primary data features include:

Y: Individual Rate
X_0: Average Co-Insurance Rate
X_1: Maximum Co-Insurance Rate
X_2: Cost-Sharing Benefit Rate
X_3: Out of Network Co-Insurance
X_4: Number of Same Network Plans in Same State
X_5: Number of Same Network Plans Out of State
X_6: Number of ACA Plans in County
X_7: Prevalence of Major Health Issues in County Among Population Aged 26-64
X_8: Number of Benefits Provided By Plan
X_{9+}: Increase In Individual Rate from Previous Year
X_{10}: County Unemployment Rate
X_{11}: County Population Change
X_{12}: County Median Income
X_{13}: County Average Age
X_{14}: County Percentage Age 50+