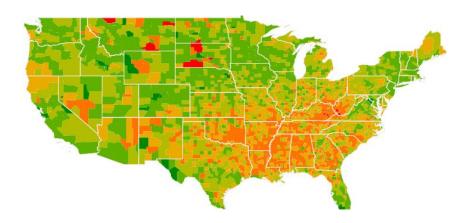
Life Expectancy in the US

Khairul Omar | Stuti Singh | Aleksandar Gakovic

from LiveLong Consultancy



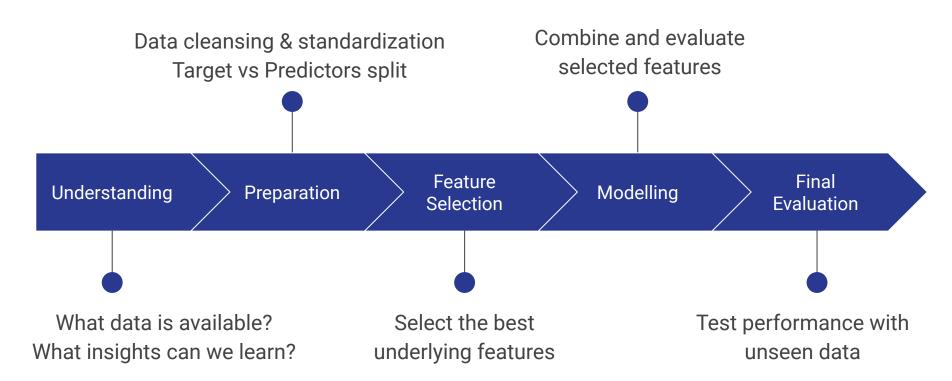
Life expectancy by county



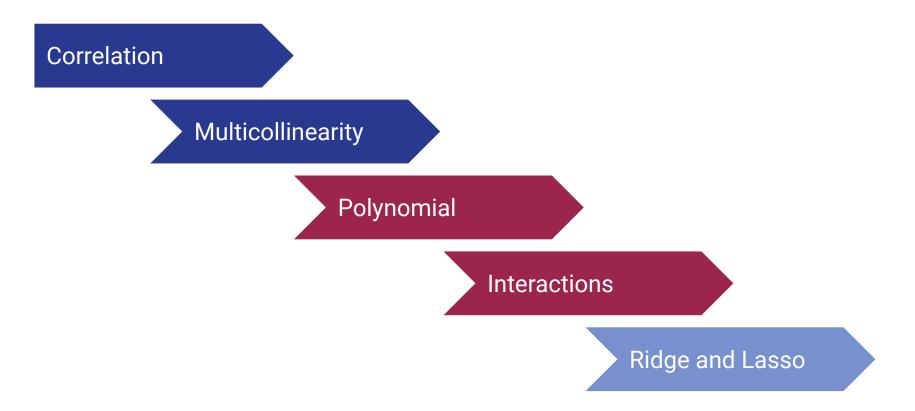
Introduction

- We are consultants at LiveLong
- Big differences in life expectancy (20+ yrs) between counties
- Mission: to support govt to formulate healthcare policy and budget allocation
- Objective: to find the most significant contributing factors to life expectancy

Methodology



Feature selection techniques

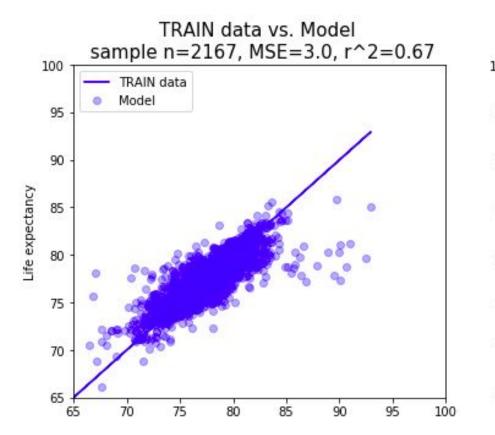


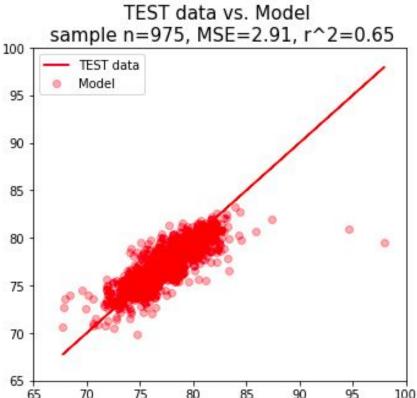
Top contributing factors in final model

Teen births Adult smoking Food insecurity Poor mental health days Diabetes prevalence Physical inactivity Household income **Excessive drinking** Life expectancy



Model result and validation





Conclusions



- Teen births, smoking and food insecurity are top contributors to lower life expectancy
- Trade-off between model's accuracy and ability to predict using unseen data input
- The accuracy of our model remains fairly unchanged when applied to new data set

Q & A

