

SMART QUESTION: Does the age at which adolescents start engaging in "risky" behaviors predict their interpersonal, physical, and mental well-being? Furthermore, how does race influence interpersonal, physical, and mental well-being?

Predictors:

- Age when Adolescent Started Drinking Alcohol
- Age when Adolescent Started Smoking Marijuana
- Age when Adolescent Started Having Romantic Relationships
- Race

Regressors:

- Thoughts of committing suicide (yes/no)
 - Engaged in a physical fight (yes/no)
 - Hours of sleep individual gets on average per night
 - Number of romantic partners
 - Number of days per week an individual works out for 60 minutes
1. Multiple linear Regression model & linear decision tree & random forest
 - a. Predicting number of romantic partners from age_alc, age_marijuana, age_sex
 - b. Predicting hours of sleep from age_alc, age_marijuana, age_sex
 - c. Predicting amount of physical activity from age_alc, age_marijuana, age_sex
 2. Binomial logistic Regression model & linear decision tree & random forest
 - a. Predicting suicidal thoughts from age_alc, age_marijuana, age_sex, race
 - b. Predicting physical fight from age_alc, age_marijuana, age_sex, race

GITHUB: <https://github.com/mageeca/DATA6101-FINAL-PROJECT>

SOURCE OF DATASET: <https://www.cdc.gov/healthyyouth/data/yrbs/index.htm>