

# HS Counselor Tool



# Our process

Obtain

Scrub

Explore

Model

Analyze

## Obtain

Gather Data from  
NCES

## Scrub

Organize and  
structure the data  
for ease of use.

## Explore

Investigate the  
dynamics of the  
data.

## Model

Build a predictive  
model.

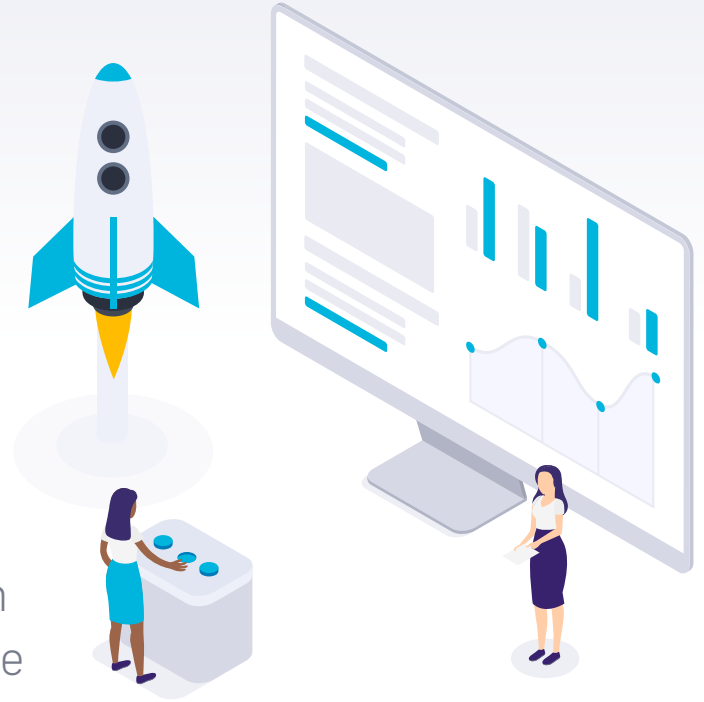
## Analyze

Use insights from  
the model to make  
decisions.

# The Data

Data for this model was obtained from the National Center of Education Statistics High School Longitudinal Study of 2009. Complete information can be found at

<https://nces.ed.gov/surveys/hsls09/>.

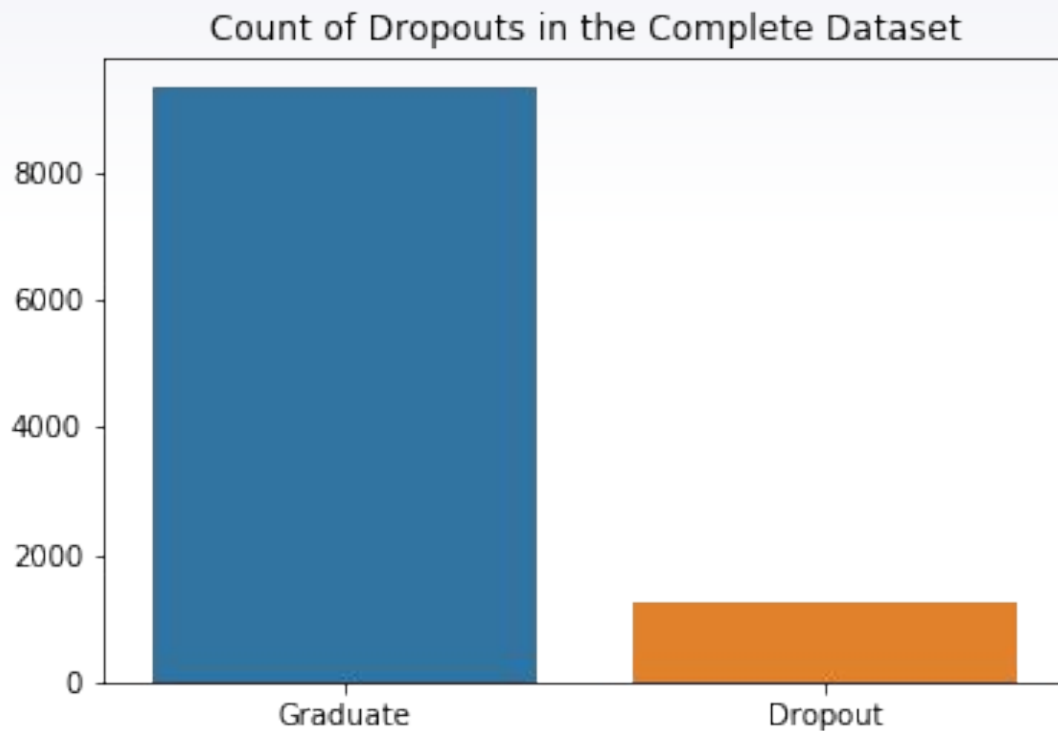


# How is the Data Structured?

Data scrubbing for this project included grouping the questionnaire data into categories, eliminating missing data, and creating composite data that combined multiple questionnaire responses.



# Explore

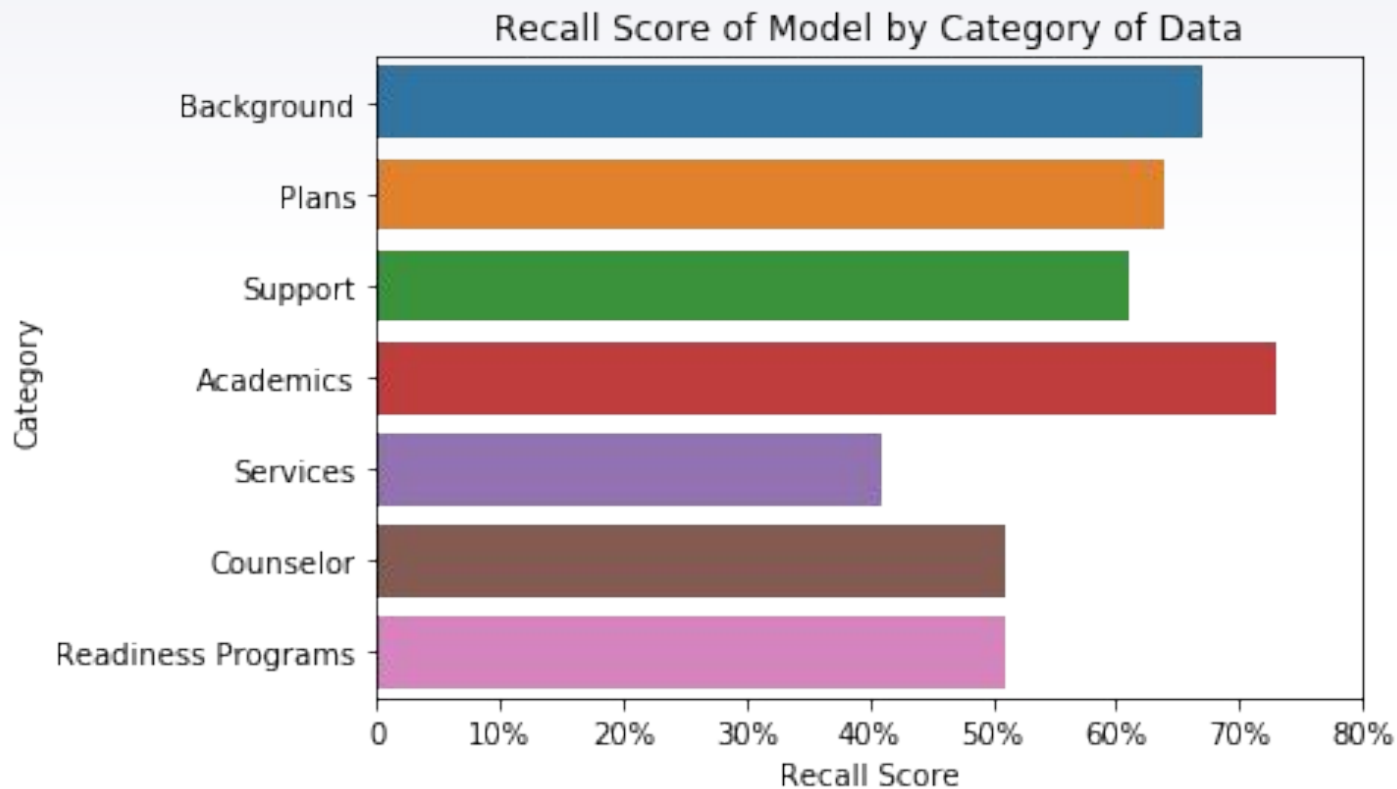


# Model

This model was able to correctly identify 73% of students that dropped out of HS at some point of their high school career.



# Analysis



# Recommendation

- For now, utilize academic data to inform decisions about the need for support programs
- In the future get more detailed information regarding student background and lifestyle that may help inform decisions.





# Future Work

- ▶ Could be applied to other success metrics, such as post-graduation employment levels, college acceptance, and life satisfaction
- ▶ Could be used to analyze the impact of various school programs with regard to those success metrics





# Thank you!

Questions? Email me at  
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