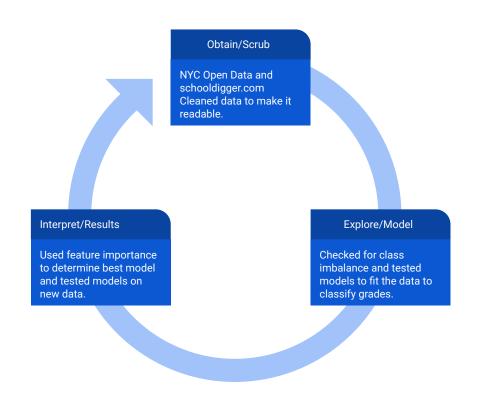
NYC School Grades

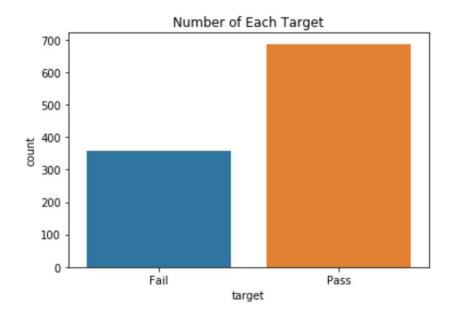
What grade would a NYC school get based on given features and what factors influence the grade?

The objective is to use the 2006-2007 school report to build a model that can predict a passing or failing grade of a school.

Methodology



What are we trying to predict?



Prediction Model Comparison

99%	Decision Tree	:	Overall Score - Most important feature Only used 4 out of 11 features to construct model
98%	XGBoost):	Overall Score - Most important feature Used all features to construct model Features were distributed unevenly
97%	Gradient Boost	•	Overall Score - Most important feature
97%	AdaBoost	:	Overall Score - Most important feature Most evenly distributed importance of features
96%	Random Forest		Overall Score - Most important feature

14 out of 15 correct new predictions

Future Work

- Gather more information:
 - More variety of school levels
 - More features:
 - State test scores
 - Number of teachers
 - School budget
 - Percent of boys vs. girls
 - Attendance rates
- Real-estate
- Business
- Send support