

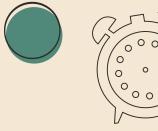
NYC School Success

By Edith Johnston





Table of Contents



Project Details

2 Modelling



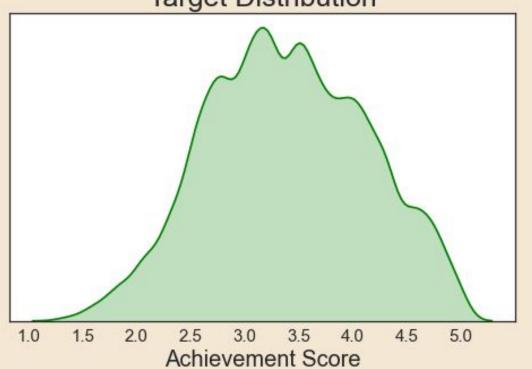
3 Analysis

Results



Features

















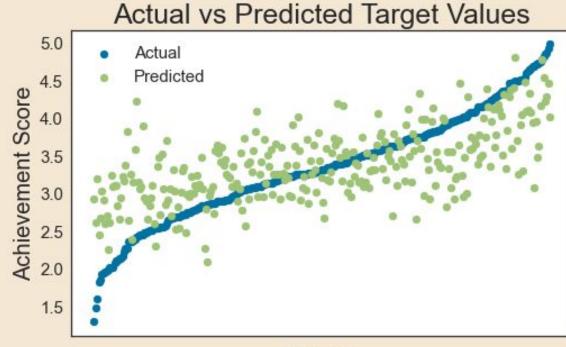


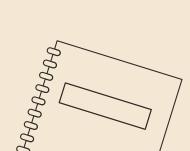




R^2: 0.398

MAE: 0.45

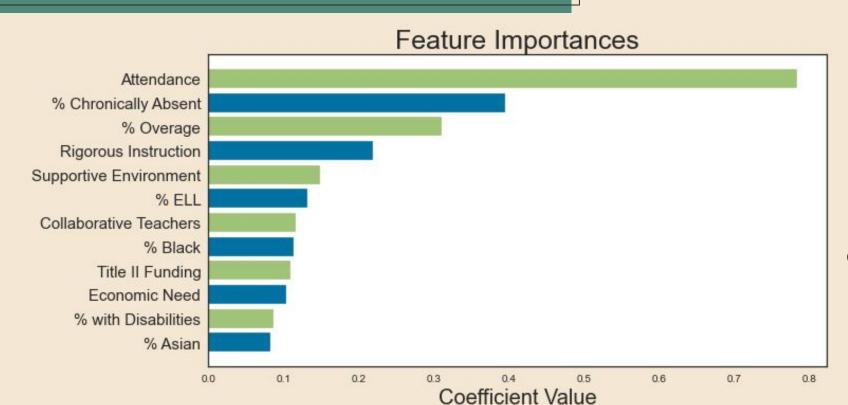




School

Model Features











Most Impactful Features

0.78

Attendance Rate

0.31

% Overage Students

0.15

Supportive School Environment



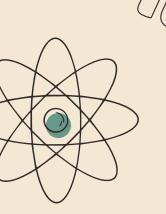
0.39

% of Student Chronically Absent 0.22

Rigorous Instruction

-0.13

% ELL students (English Language Learners)



Feature Impact

Two kinds of features



Intrinsic

Location, racial profile, economic need, etc

Changeable

Spending, attendance rates, teacher training, etc

Some Max/Min Correlations

3



-.46

.65

.75

.76

Achievement

% Chronically Absent

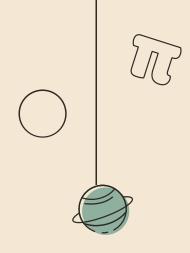
POC

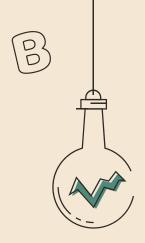
POC

%
Chronically
Absent

POC (% Black + % Hispanic)

Economic Need % in Temporary Housing





Conclusions

There's a lot to unpack here

Future Work



- More variables!
- More interaction features

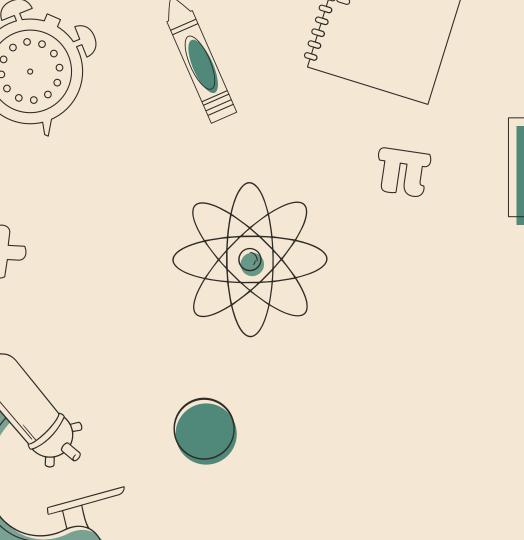


 Attempt to focus on features that can be changed



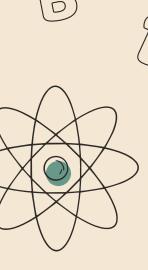






Appendix

Thank you for your time



Data Sources



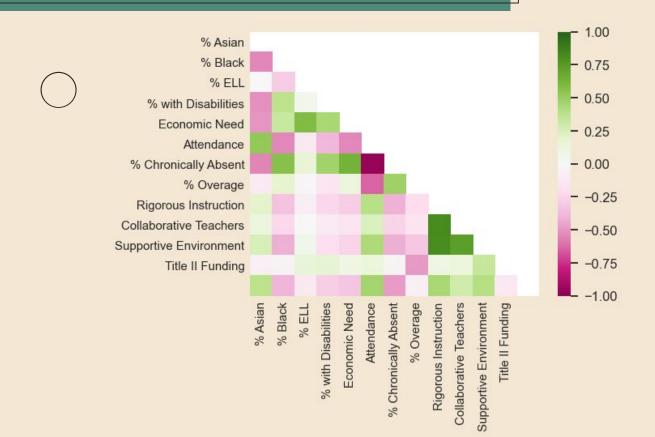
NYCED

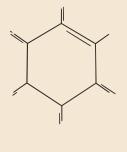
Quality Review

NYSED

Financial Transparency Reports

Feature Correlations







Other 6 Model Features

-0.17

Collaborative Teachers

-0.13

% Black Students

-0.11

Title II Funding: Teacher Quality

0.10

Economic Need Index

0.09

% of Students with Disabilities



0.08

% Asian Students

