Data Analysis on SAT & ACT Test Data (2017/2018

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Intro & Problem Statement

- Relationship between SAT & ACT Test Scores
  - Starting hypothesis(positive correlation between SAT and ACT)

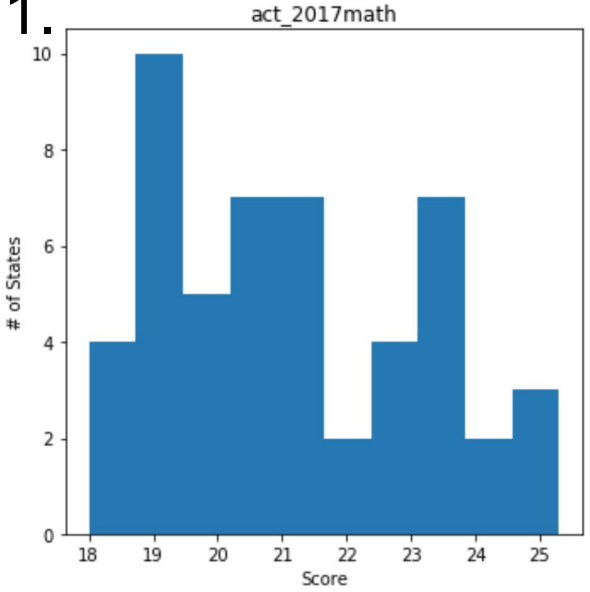
- Focus: Test Results and Participation Rates
  - How to get more participation?

Methodology

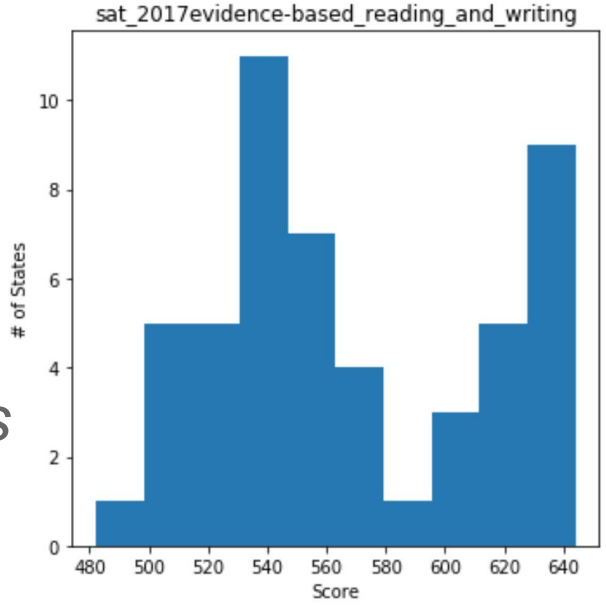
- Starting Point- 4 Datasets
- Cleaning the Data
  - Missing values, type errors, typos
  - Exploratory Data Analysis
- Ending point
  - 1 Dataset

Visuals

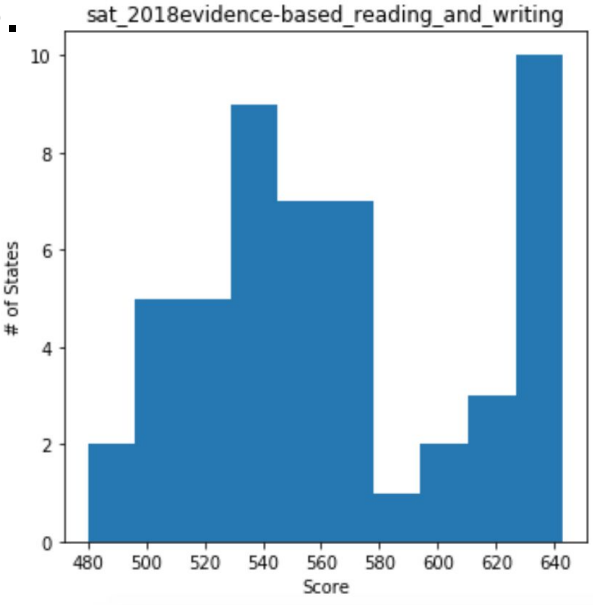
1.



2.



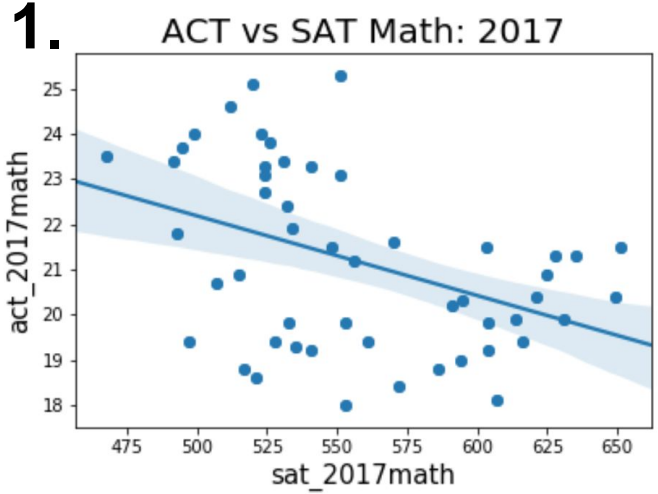
3.



X Axes: Exam Scores
Y Axes: # of States

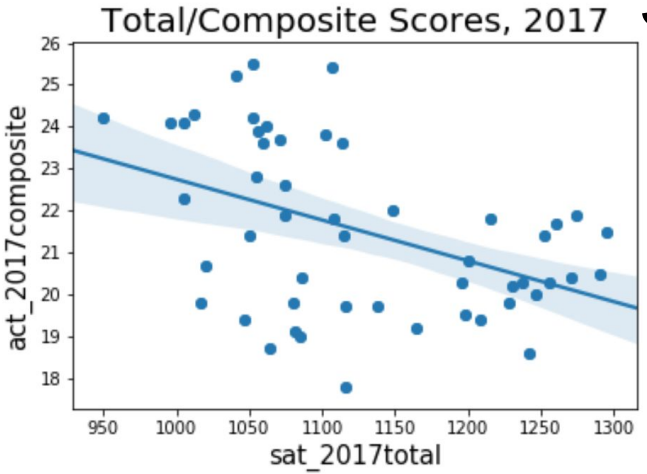
Visuals

1.

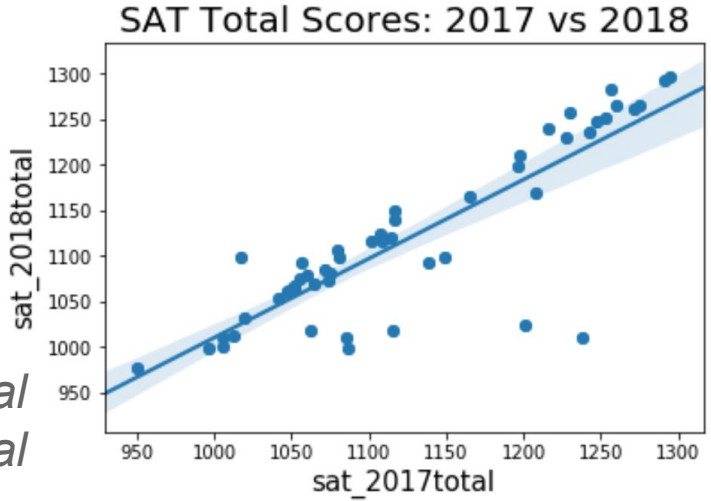


X Axis: ACT 2017 Math
Y Axis: SAT 2017 Math

3.



X Axis: SAT 2017 Total
Y Axis: ACT 2017 Comp.



X Axis: SAT 2017 Total
Y Axis: SAT 2018 Total

2.

Conclusions & Recommendations

- Inverse correlation between Participation and Test Scores

- Recommendations/Feedback for SAT/ACT companies
  - Make tests mandatory
  - Pre-testing in years before HS Senior
  - Push colleges to accept SAT/ACT scores as credits
  - Align with states for standards