

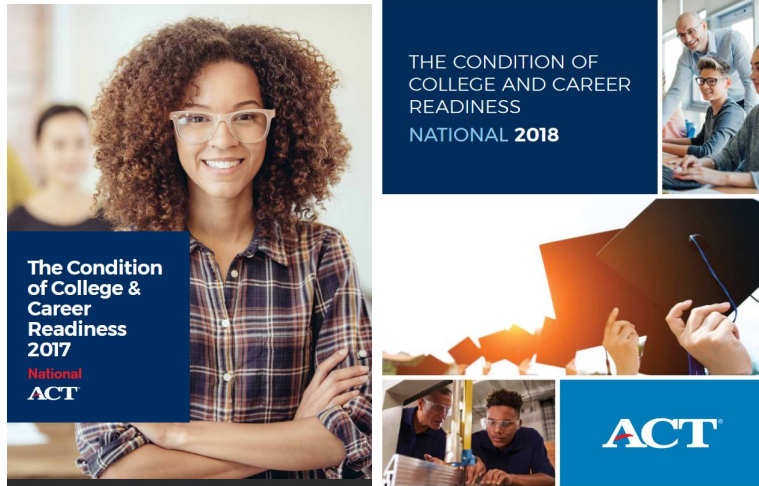
SAT & ACT Analysis

**Yu Fung
Chern Yi (Evan)**

Problem Statement

- **Factors influencing participation rates and scores**
- **Recommendations to increase participation**

Dataset



CollegeBoard

2017

SAT Suite of Assessments Annual Report

SAT[®] PSAT/NMSQT[™] PSAT[™] 10 PSAT[™] 8/9

CollegeBoard

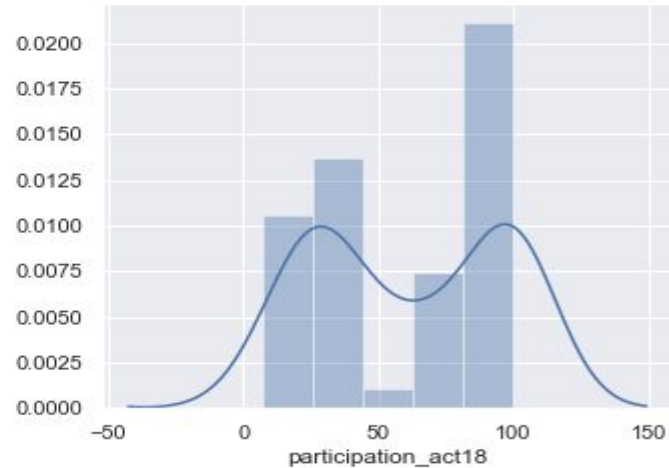
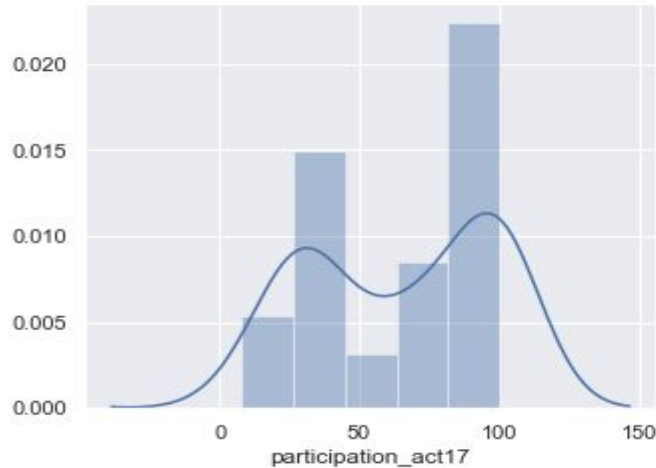
2018

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Challenges

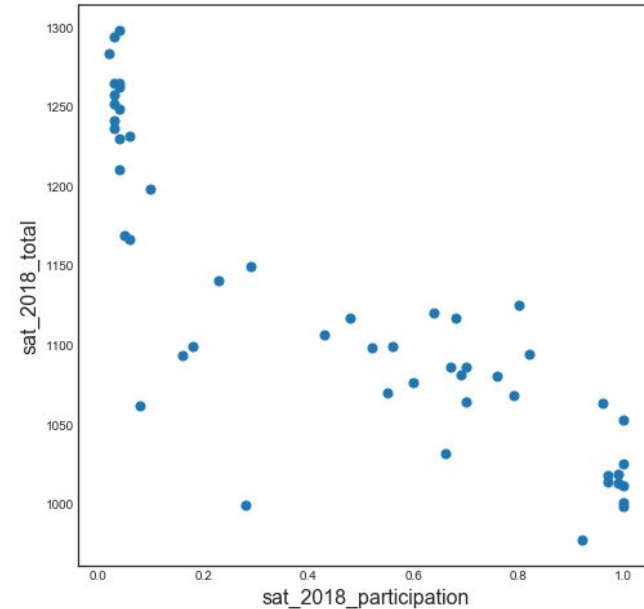
- **Dataset limitations**
 - **Method of collection not random**
 - **Bimodal distribution**



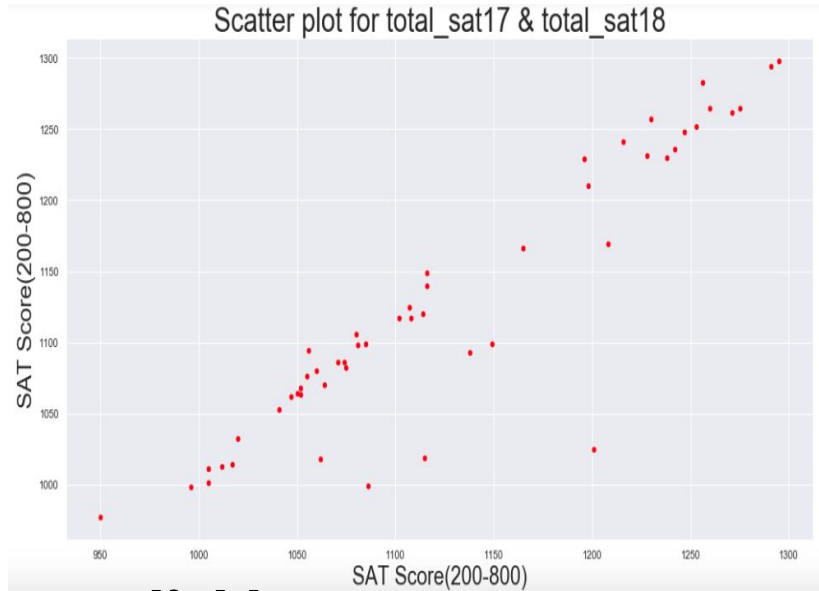
Recommendation

High participation low average score

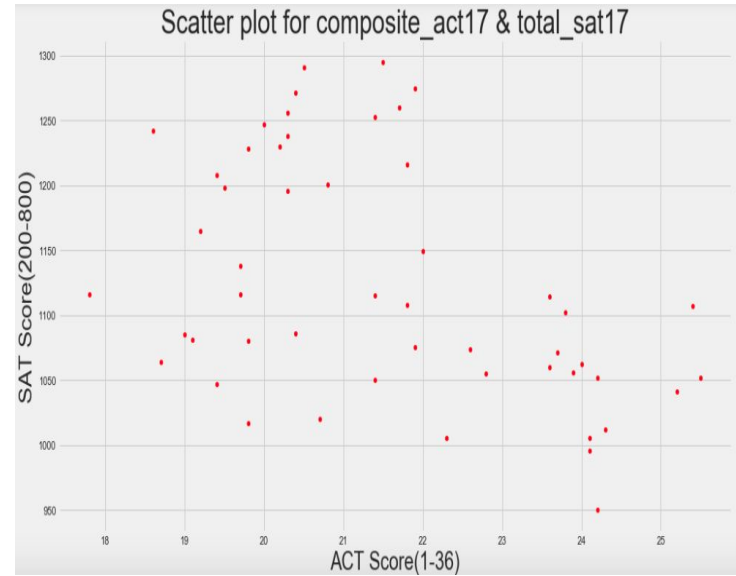
Scatter Plot of 2018 SAT Participation vs. Total Score



Recommendation



Reliable test



Not related to competitor

Recommendation

- **Better SAT scores to enter colleges in mandated ACT states**
- **Target efforts to these states**

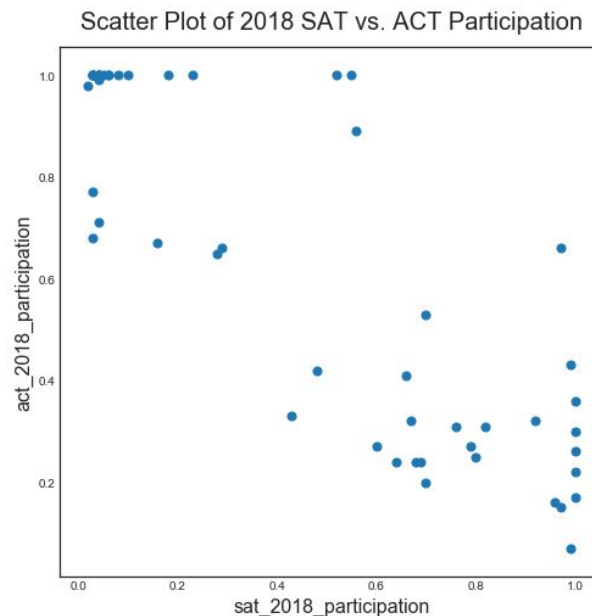
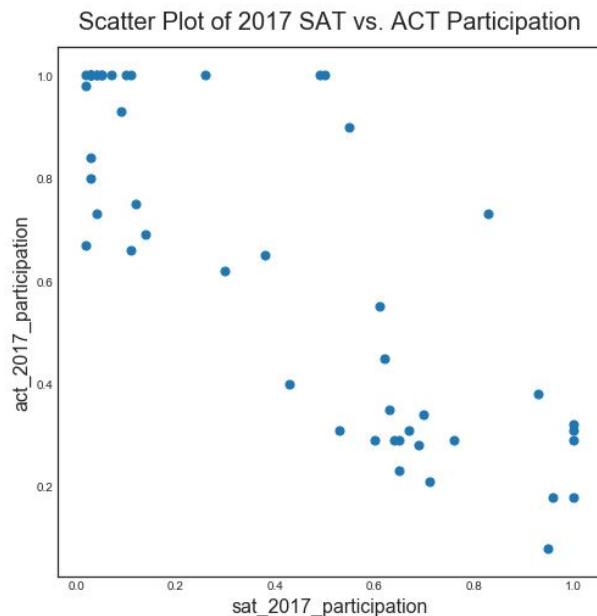
state	participation_act18	participation_sat18
Alabama	100.0	6.0
Kentucky	100.0	4.0
Wisconsin	100.0	3.0
Utah	100.0	4.0
Tennessee	100.0	6.0

Recommendation

**Low SAT/ACT
participation rates**

state	sat_2018_participation	act_2018_participation
Alaska	0.43	0.33
Oregon	0.48	0.42

Recommendation



SAT and ACT are substitutes

Recommendation

- **Free and accessible test prep materials**
- **Make SAT preferred test partner**