



SAT vs ACT Analysis

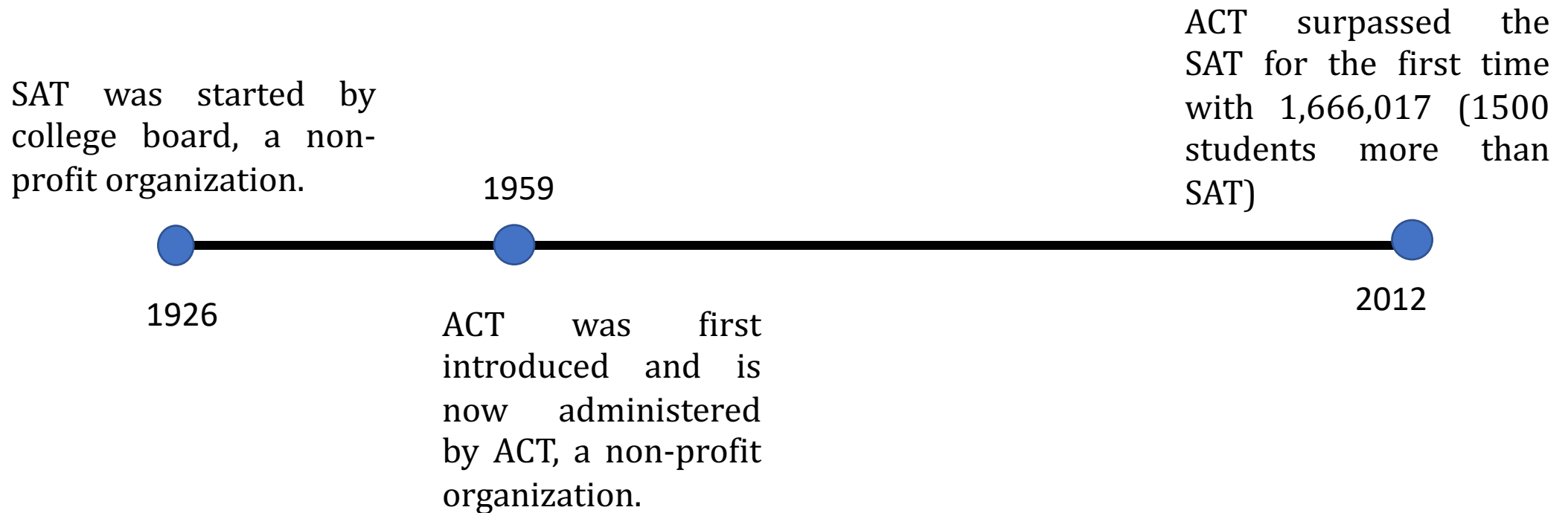
Problem Statement

Over past few years, ACT (American College Testing) test is widely recognised than SAT (Scholastic Assessment Test) for college admissions in the United States.

This project will explore in detail the trends of ACT and SAT test conducted in the year 2017 and 2018 and discuss the factors that lead to low participation rates of SAT and recommendations on how to improve them.

What is ACT and SAT

Standardised test used for college admissions in the United States.



DATA (dataset has the following information)

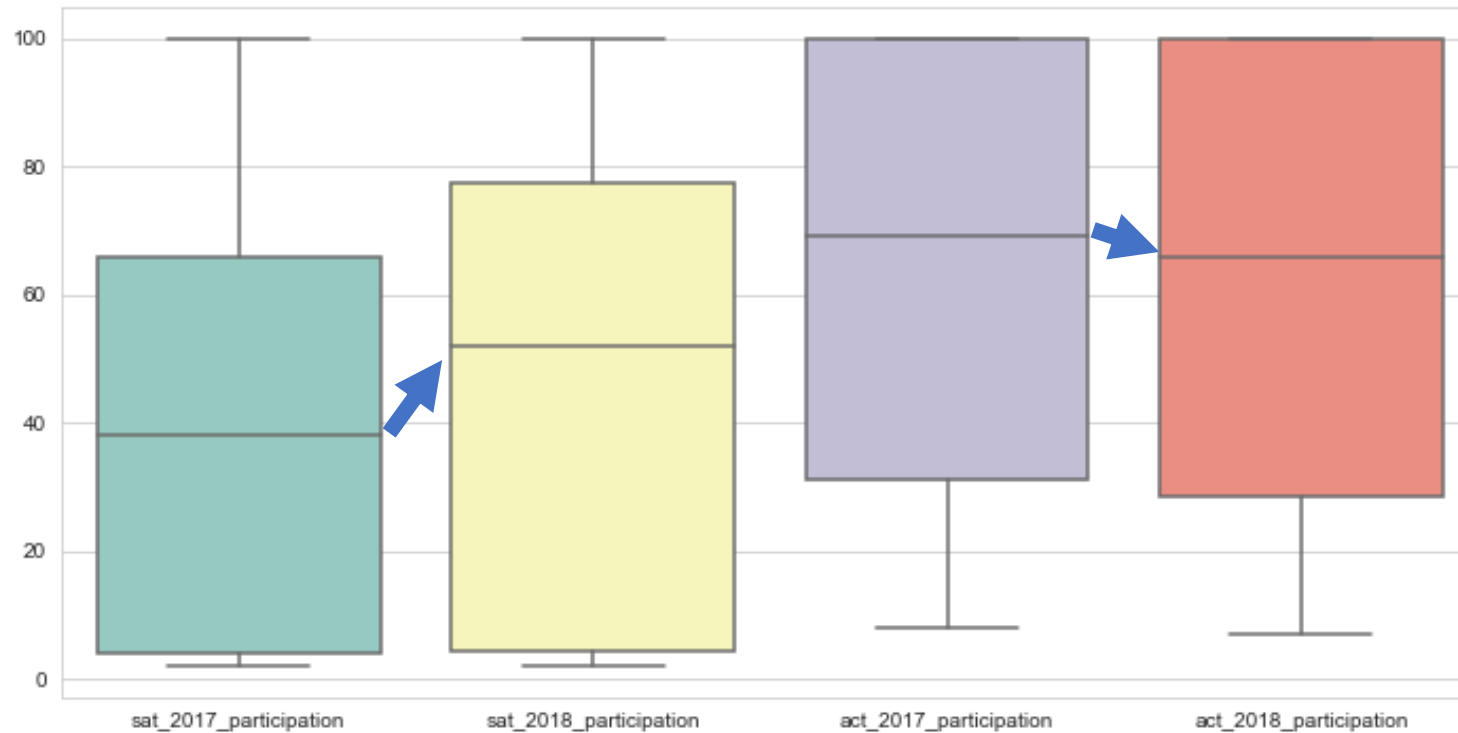
ACT

- Average participation rates
- Average Math Score
- Average English Score
- Average Reading Score
- Average Science Score
- Average Total Score

SAT

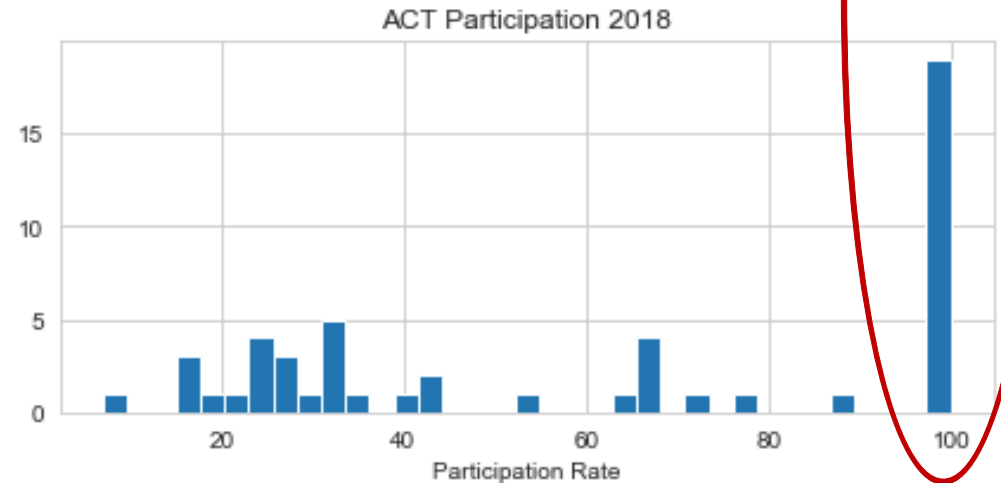
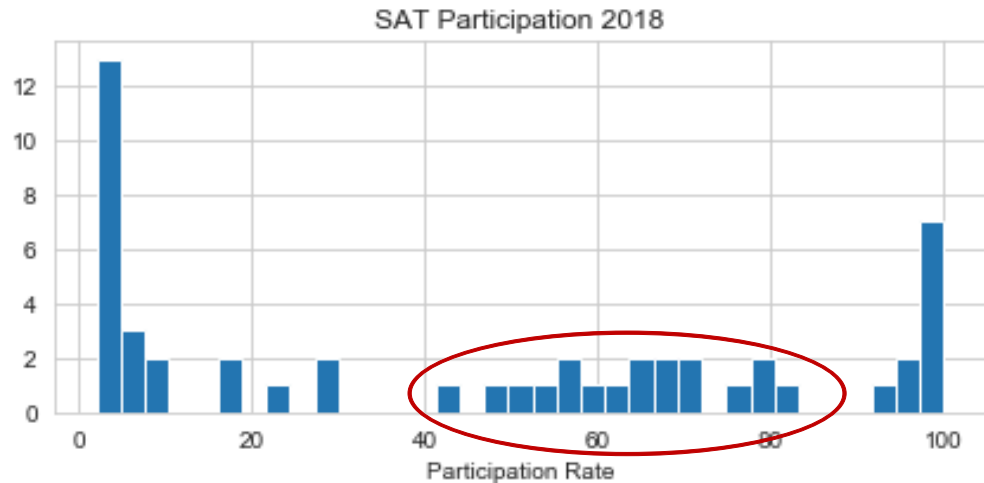
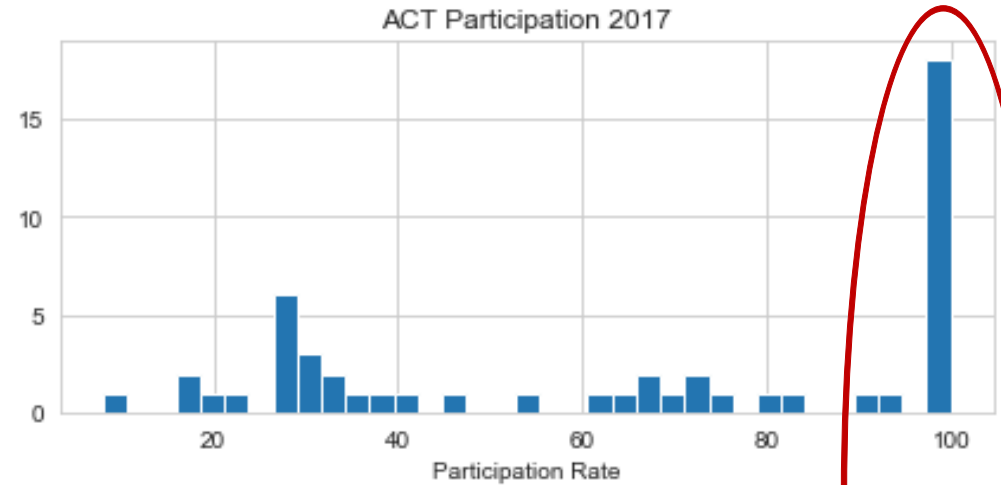
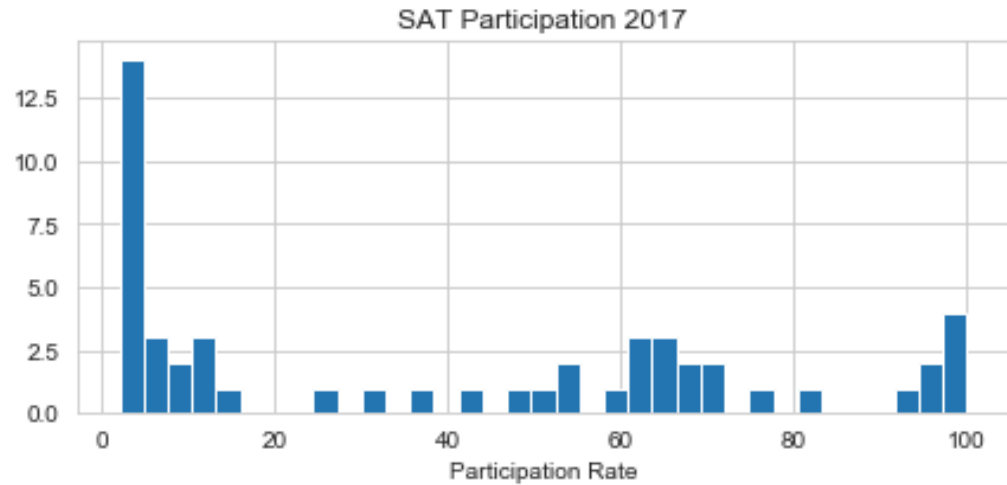
- Average participation rates
- Average Math Score
- Average Evidence based reading writing Score
- Average Total Score

ACT and SAT participation rates



Though ACT has performed better than SAT, Average participation rate of SAT in 2018 has increased and ACT has decreased.

ACT and SAT participation rates



SAT shows a larger group of states with 42-80% participation, as well as a smaller set of highly committed states.

ACT shows a large group of highly committed states.

States with Interesting trends

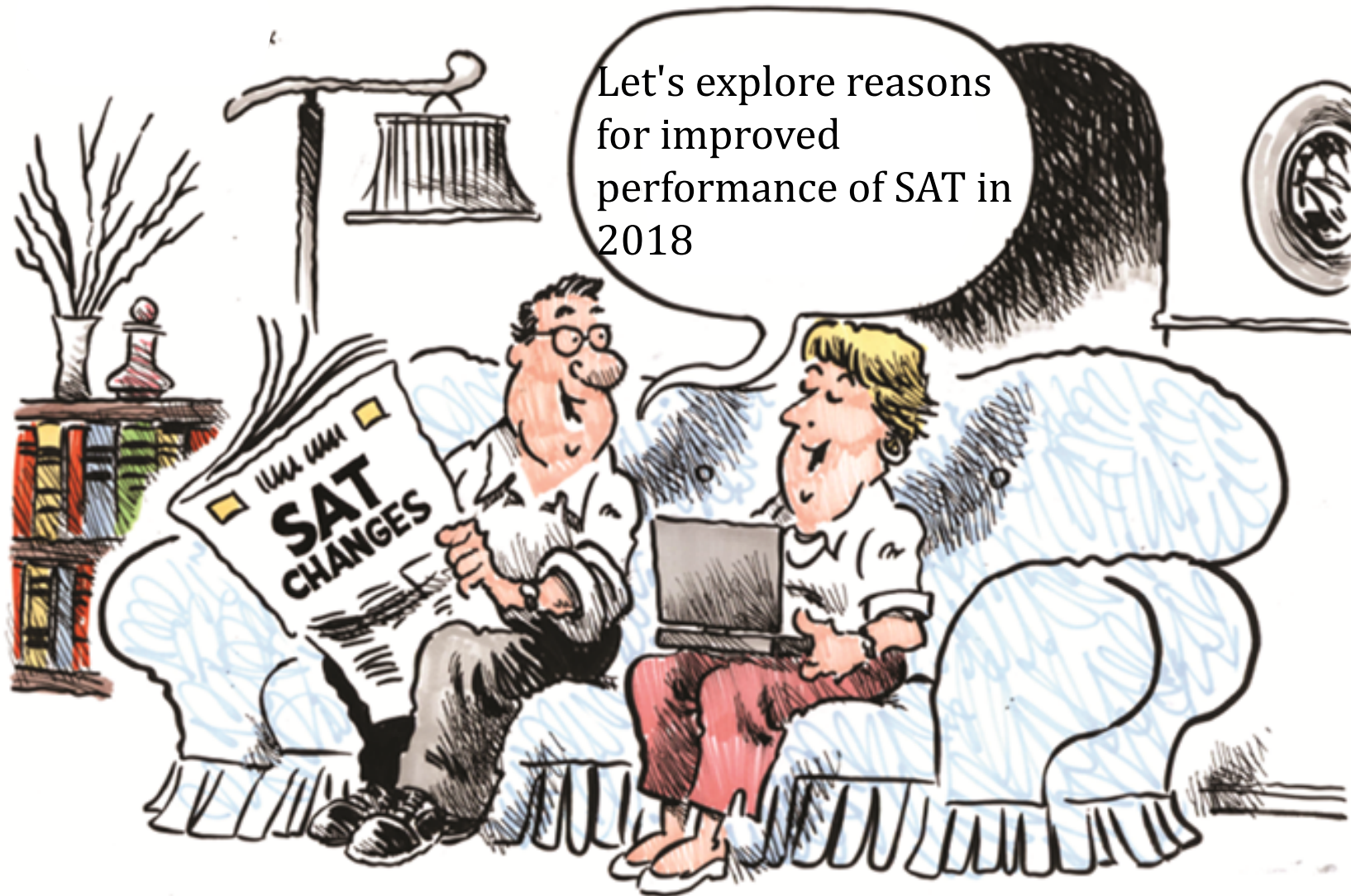
ACT participation rates have decreased



state	sat_2017_participation	sat_2018_participation	act_2017_participation	act_2018_participation
Colorado	11	100	100	30
Illinois	9	99	93	43
Rhode Island	71	97	21	15



SAT participation rates have increased



SAT SCHOOL DAY

SAT School Day gives students the opportunity to take the SAT during a regular day at school.

LESS STRESS AND FATIGUE

Students test in a place they know—better rested and prepared.

MORE CONVENIENCE

Test is conducted at their own school during regular school hours.

NO WEEKEND CONFLICTS

School day testing won't disrupt weekend plans, responsibilities, or family time.

AFFORDABLE COST

More low-income students have access to tangible benefits like college application fee waivers and free SAT score sends

Colorado -100

Connecticut -100

Delaware- 100

Idaho - 100

Illinois -100

Maine- 99

Michigan- 100

New Hampshire- 96

Rhode Island-97

the District of Columbia -92



States that administered the SAT
School Day (with average participation)

New pattern of SAT

- ✓ No more negative penalty
- ✓ No more difficult vocabulary
- ✓ Essay writing made optional

Advantages of SAT over ACT

- ✓ More time per question

The SAT gives students 43% more time than the ACT and there's no penalty for guessing

- ✓ No science section

The science skills needed for college are tested in the context of the reading passages

Conclusions and Recommendations

- The ACT has been doing quite well. But the SAT made clear gains in 2018 relative to the ACT ,reason being more states adopting SAT school day and the new improved pattern of SAT test which fits with the common core curriculum of the school.
- Targeting states similar to 2018, should be promising for the College Board moving forward.