



# GA Project 1 - SAT & ACT Analysis

Analysis of SAT and ACT Participation Rates and scores for  
2017 and 2018



Goal : To analyze and Increase participation  
rates for SAT and ACT

# States with Top Participation Rates

SAT 2018 Highest Total Scores

state	sat_2018_total
Minnesota	1298
Wisconsin	1294
North Dakota	1283
Iowa	1265
Kansas	1265

ACT 2018 Highest Total Composite scores

	state	act_2018_composite
6	Connecticut	25.6
21	Massachusetts	25.5
29	New Hampshire	25.1
32	New York	24.5
22	Michigan	24.4

# Observations on Rate Changes 2017-2018

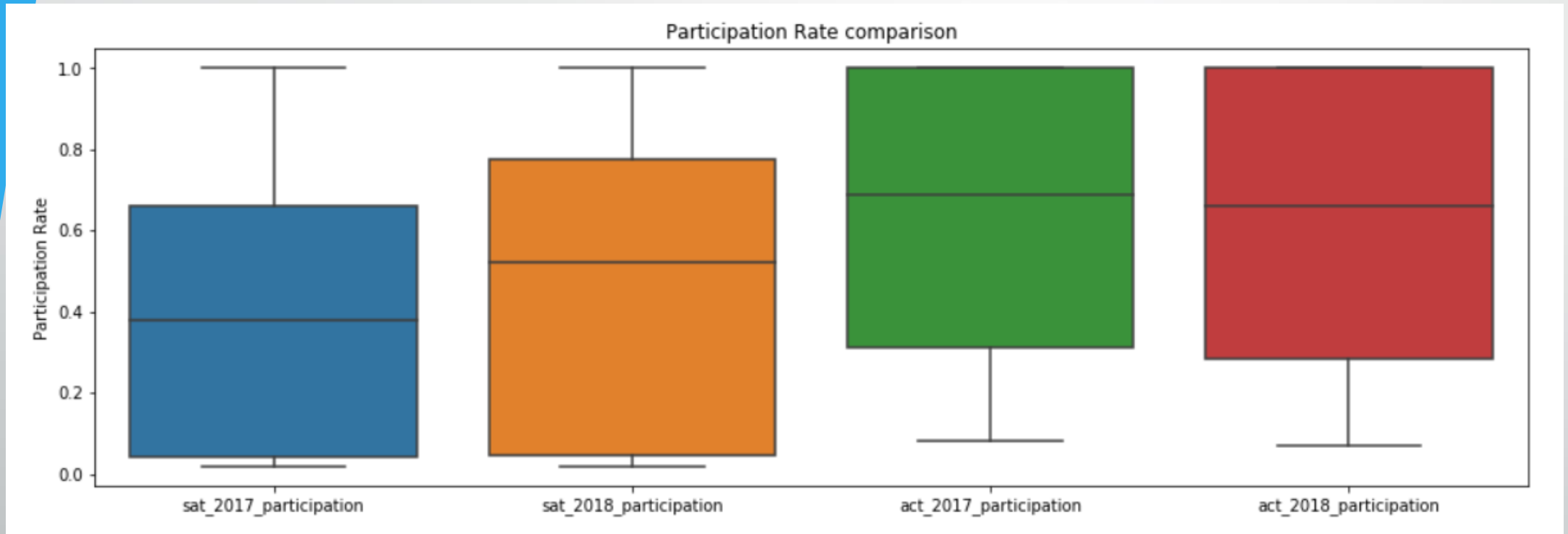
- Colorado had 100% participation at 2017 and 30% at 2018
- The data suggest that the majority of students have shifted from taking ACT at 2017 to taking SAT at 2018, as the SAT participation rate have increased significantly
- Participation rates in Florida in both SAT and ACT have reduced in 2018, compared to 2017.



# Distribution of Participation Rates

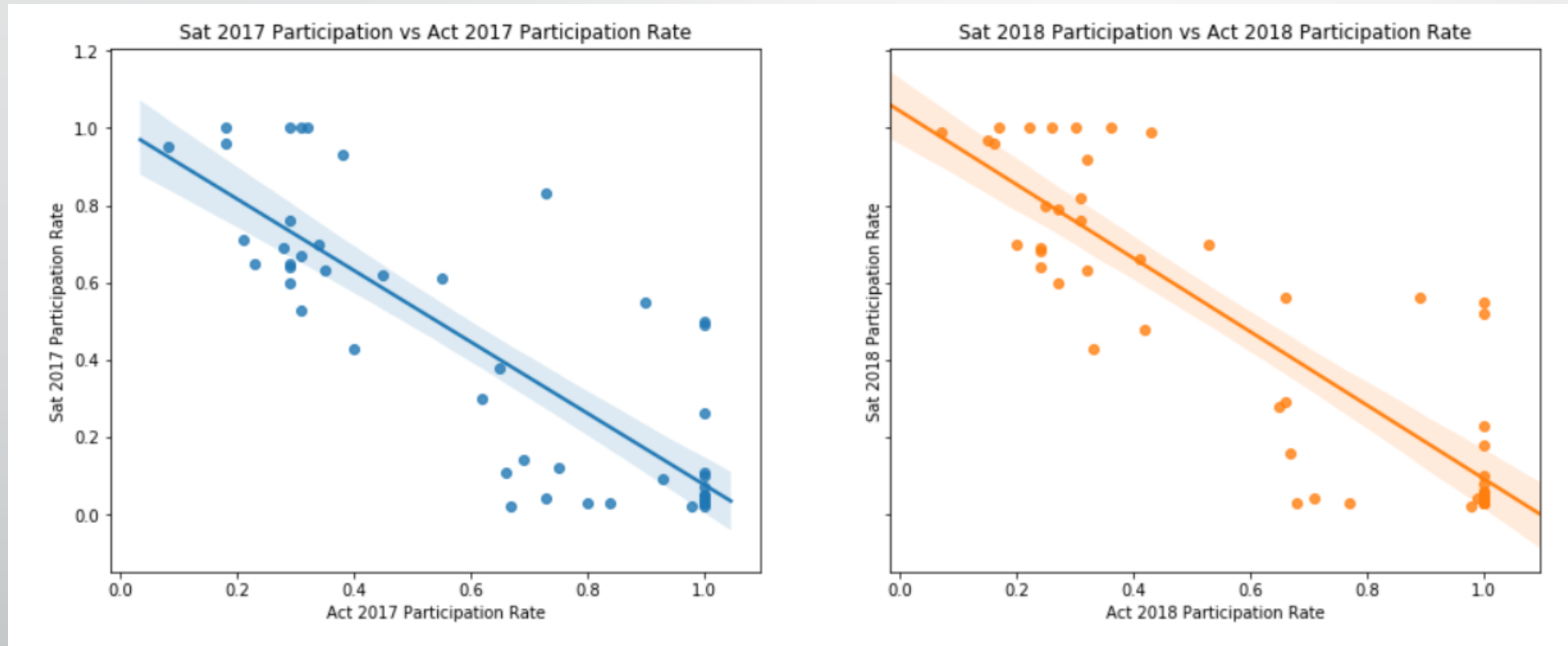
- In overall, participation rates generally do not follow a normal distribution for ACT and SAT

# Trends



From 2017-2018, SAT participation rates have increased, while ACT participation rates Have decreased.

# SAT VS ACT Participation rates



Generally, there is a negative correlation between participation rates of both tests within the same state. This suggests that students typically have a higher tendency to select only 1 test.

# Ways to increase participation Rates

- **Ways to increase participation Rates**
- Make the test mandatory for all high school students, which is done by Colorado and Illinois that have increased their participation rates from 11% and 9% to 100% and 99% respectively at 2018.
- The college board can vote to make SAT / ACT a mandatory for college admissions
- A less intrusive way would be to get colleges and universities to explicitly accept SAT scores during admission