

Standardized Test Analysis

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Problem Statement

There has been a recent change in participation in the last couple of years with SAT and ACT participation, the College Board is looking where to concentrate funding to raise SAT participation rates.

- Are there correlations between states with either higher or lower SAT/ACT participation?
- Do we see a trend in regions?
- Could the decrease in SAT participation be caused by legislation changes in requirements of SAT?

Outline

01.

Background

02.

Data Sources

03.

Analysis

04.


Conclusion/Recommendation






01.

Background



Assumption: ACT/SAT participation should be unbiased or may be biased depending on the state school.

- Participation should be similar within school districts and possibly state wide.
 - According to USNews, there should be no preference within Universities or Colleges between taking the SAT or ACT
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02.

Data Sources

- 2019 SAT Scores by State
 - Source: PrepScholar
 - Information needed: SAT participation rates per State
- 2019 ACT Scores by State
 - Source: PrepScholar
 - Information needed: ACT participation rates per State
- U.S. Census Bureau
 - Census Bureau Regions



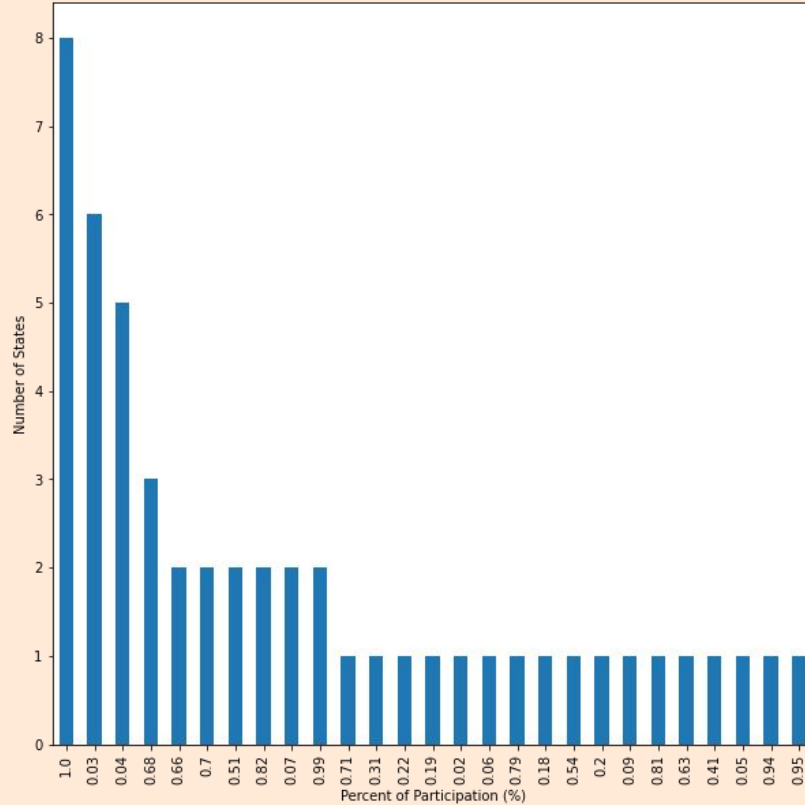
03.

Analysis

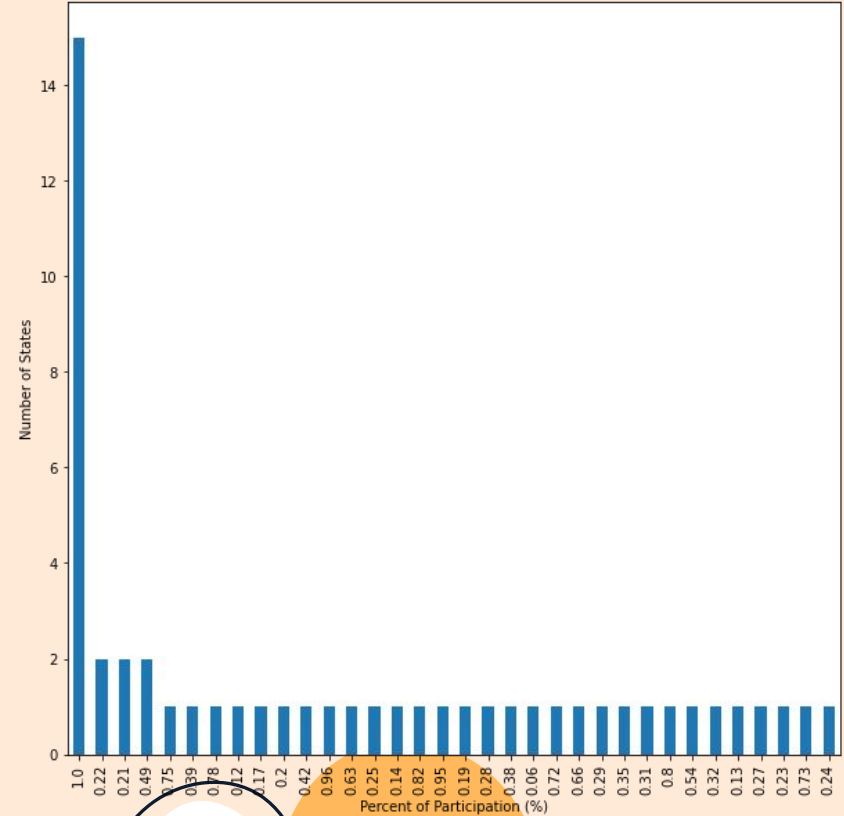


Total States Participation Rates

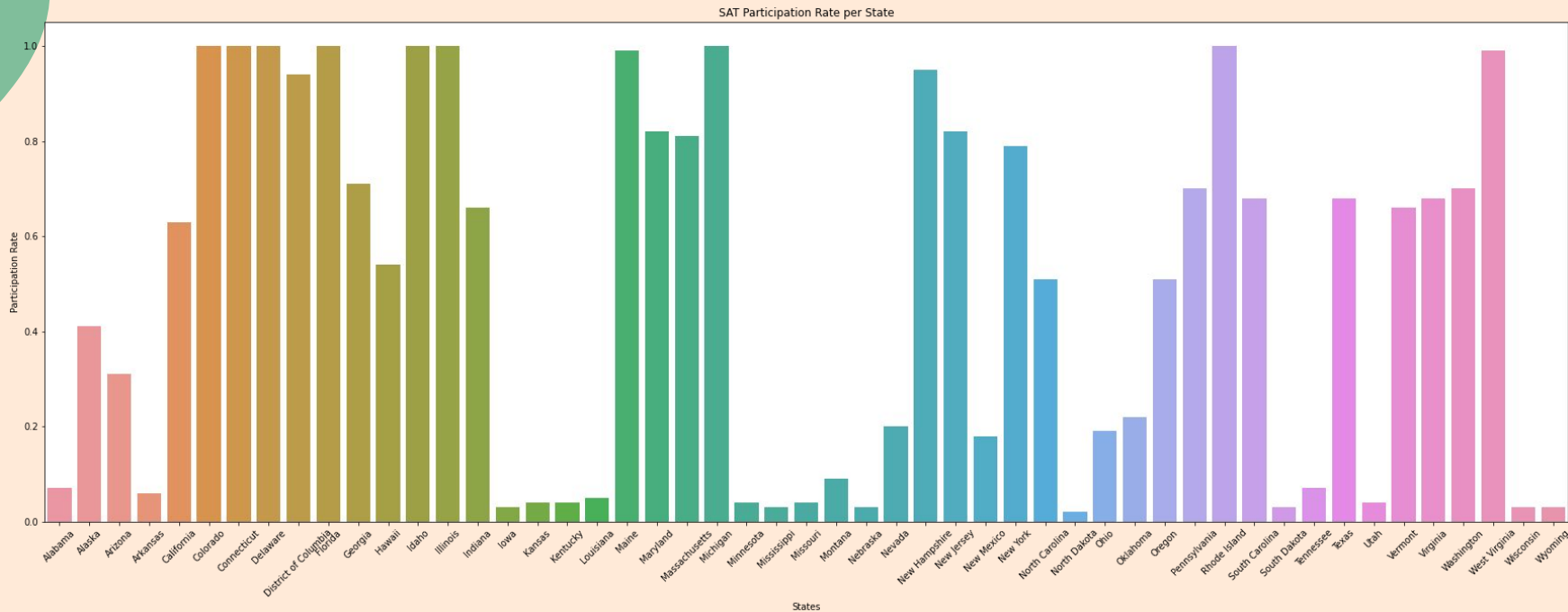
SAT Participation Rates in 2019



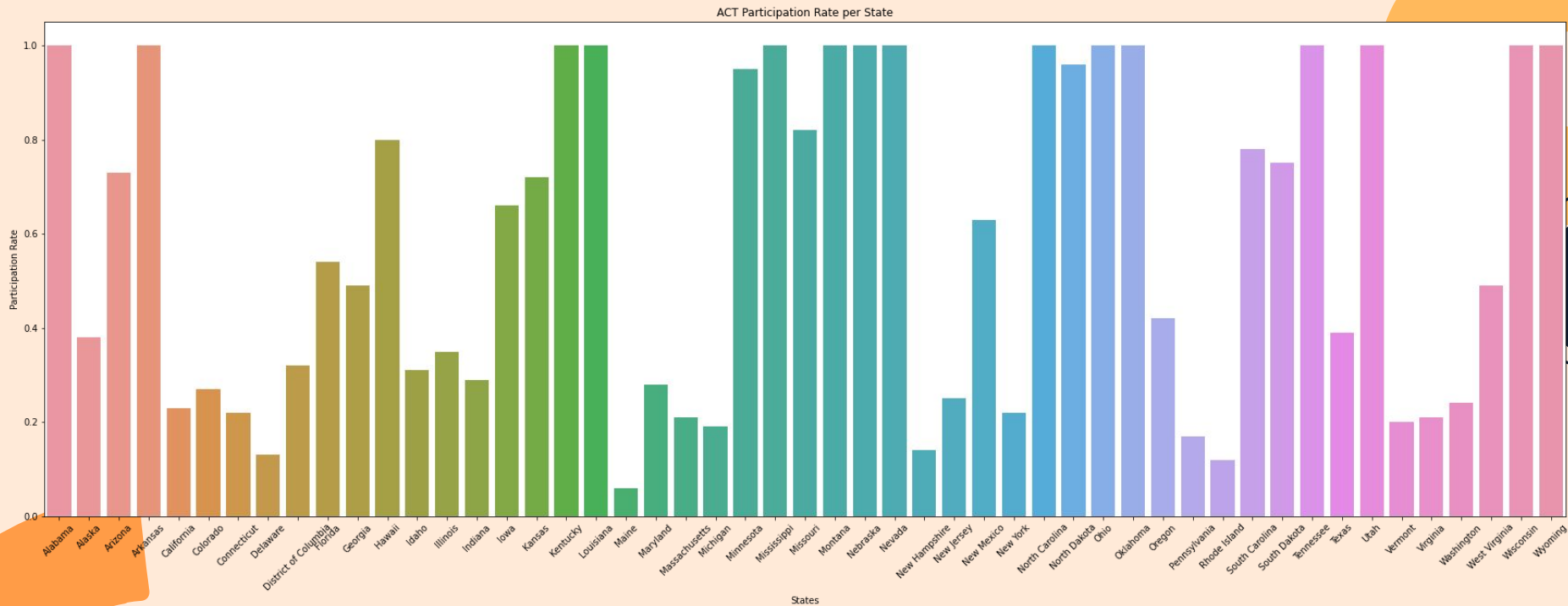
ACT Participation Rates in 2019



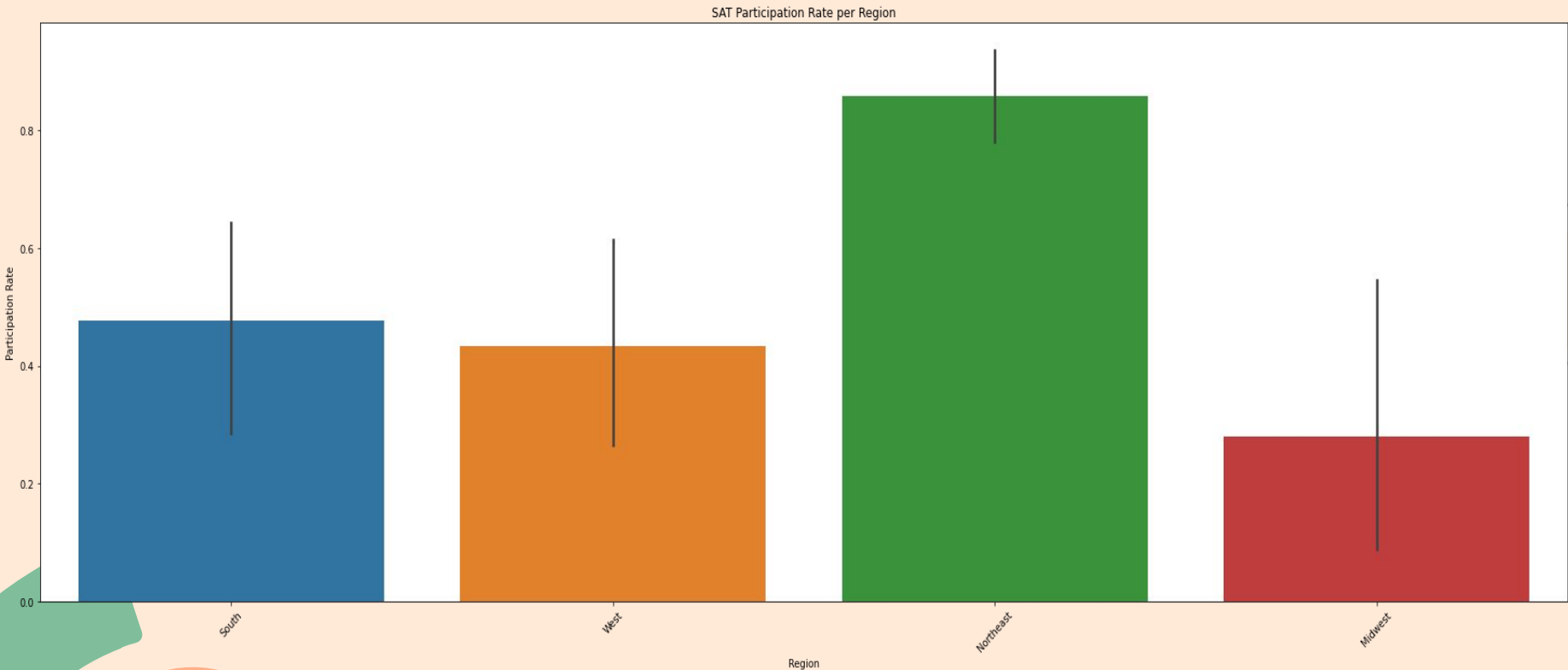
SAT Participation per State



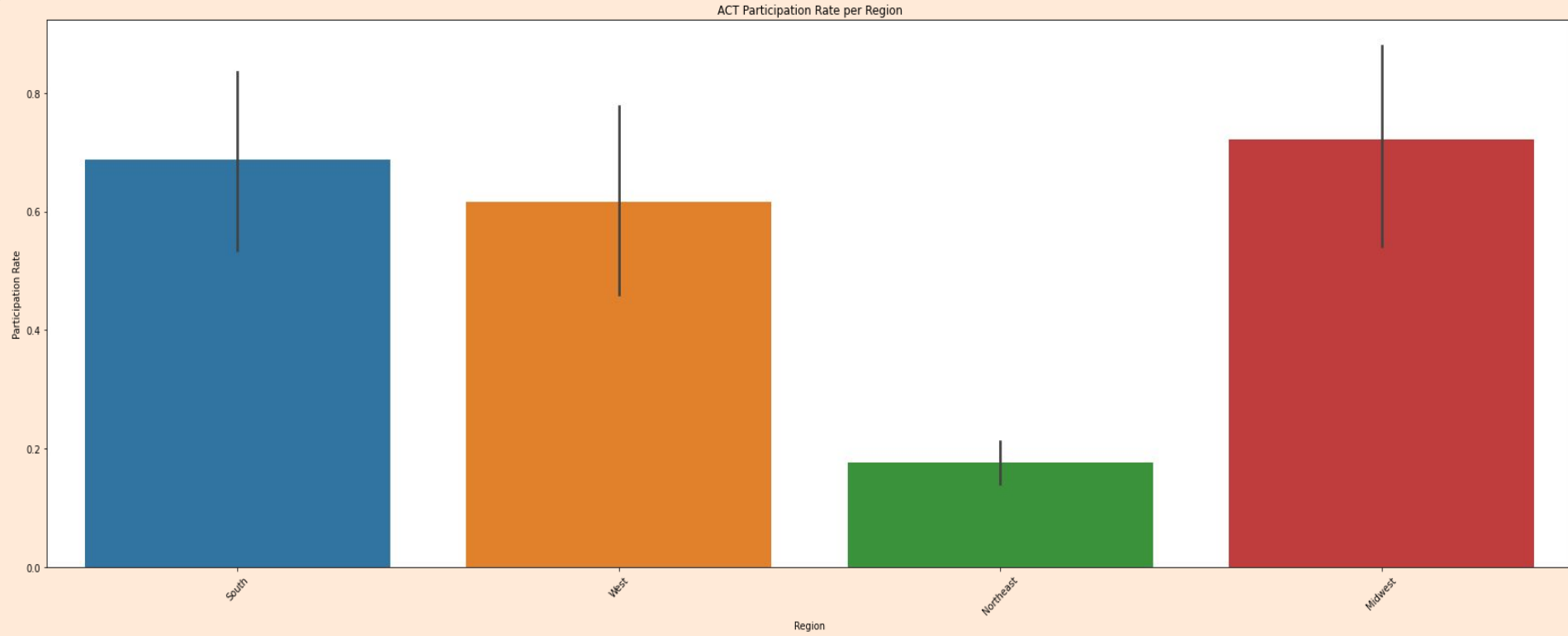
ACT Participation per State



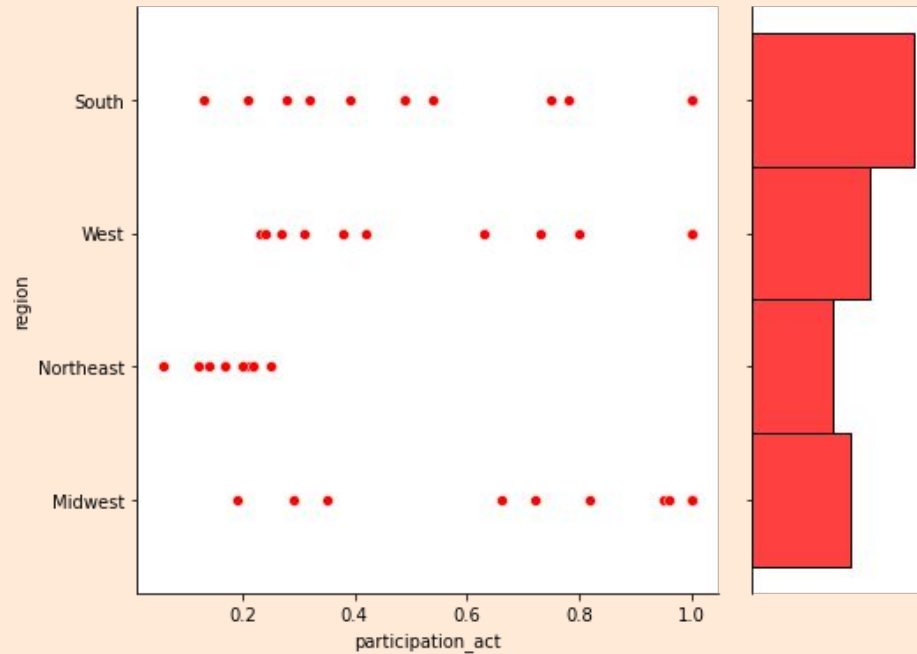
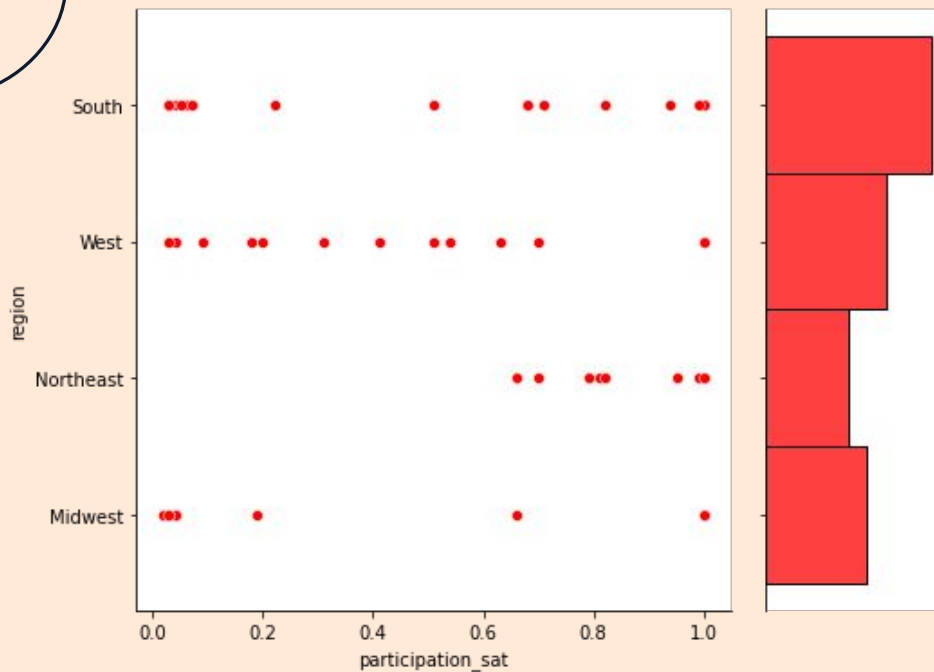
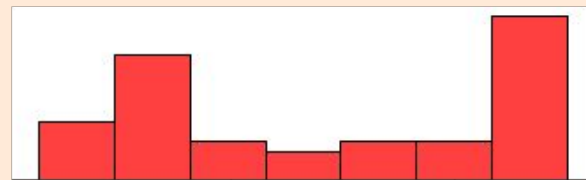
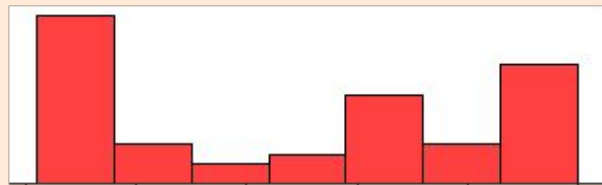
SAT Participation per Region



ACT Participation per Region



Trends of Participation per Region






04.



Conclusion/ Recommendation



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- Overall, we were able to identify a clear trend with participation in states favoring SAT and other favoring ACT. In every graph we plotted, it seemed that states tend to support one test over the other without even participation.
 - The relationship with the regions was the same as the states, favoring one over the other.
 - My recommendation for the College Board for increasing SAT participation would be to focus on states and regions with high participation rates in ACT and low participation rates with SAT





QUESTIONS?