



STANDARDIZED TEST ANALYSIS

DSI-4

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PROBLEM STATEMENT

- Are there significant differences in SAT and ACT participation rates among different regions of years 2017-2019?

PROCEDURES

- Analyzed the ACT and SAT participation rates dataset for each U.S. state from 2017 to 2019.
- Categorized each state into regions based on criteria defined by the U.S. Census Bureau.

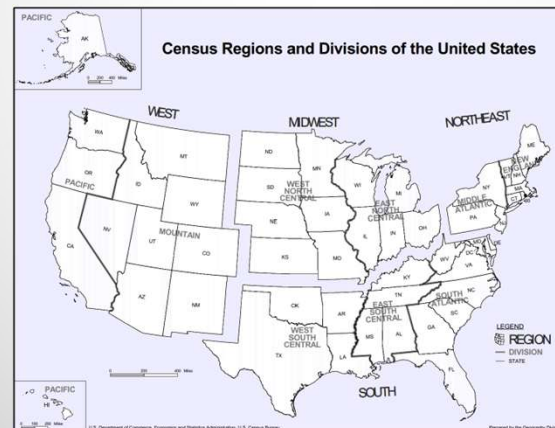


Figure 1: U.S. State by Region

FINDING

- Students from the Midwest, South, and West regions mainly participate in the ACT rather than the SAT. However, students in the Northeast region tend to prefer the SAT.
- SAT participation among students increased from 2017 to 2019, while ACT participation declined during the same period.

VISUALIZATION

- Participation Rate / Region
- Participation Rate Trend per Region

PARTICIPATION RATE / REGION

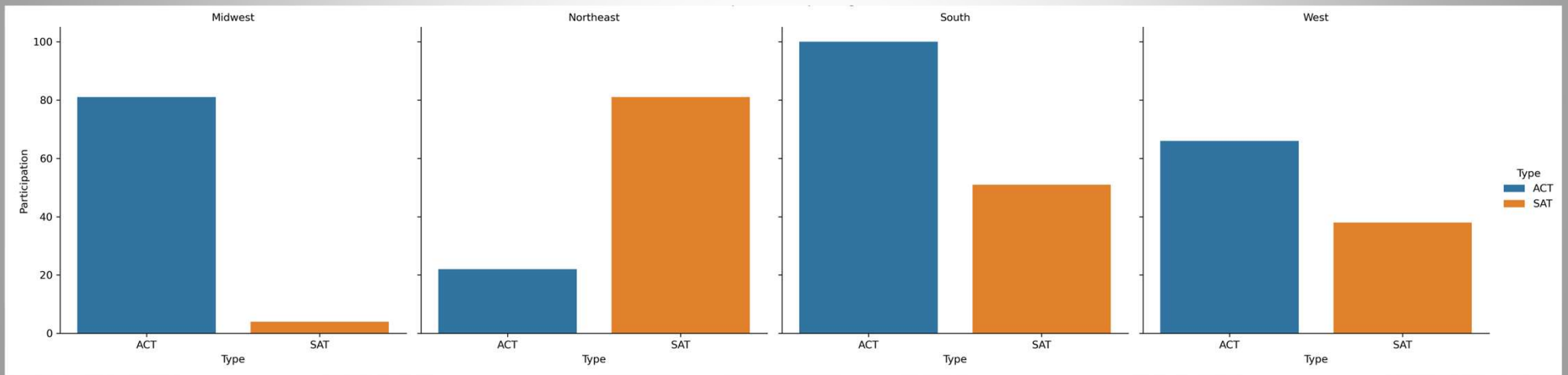


Figure 2: Participation Rate per Region

PARTICIPATION RATE TREND PER REGION

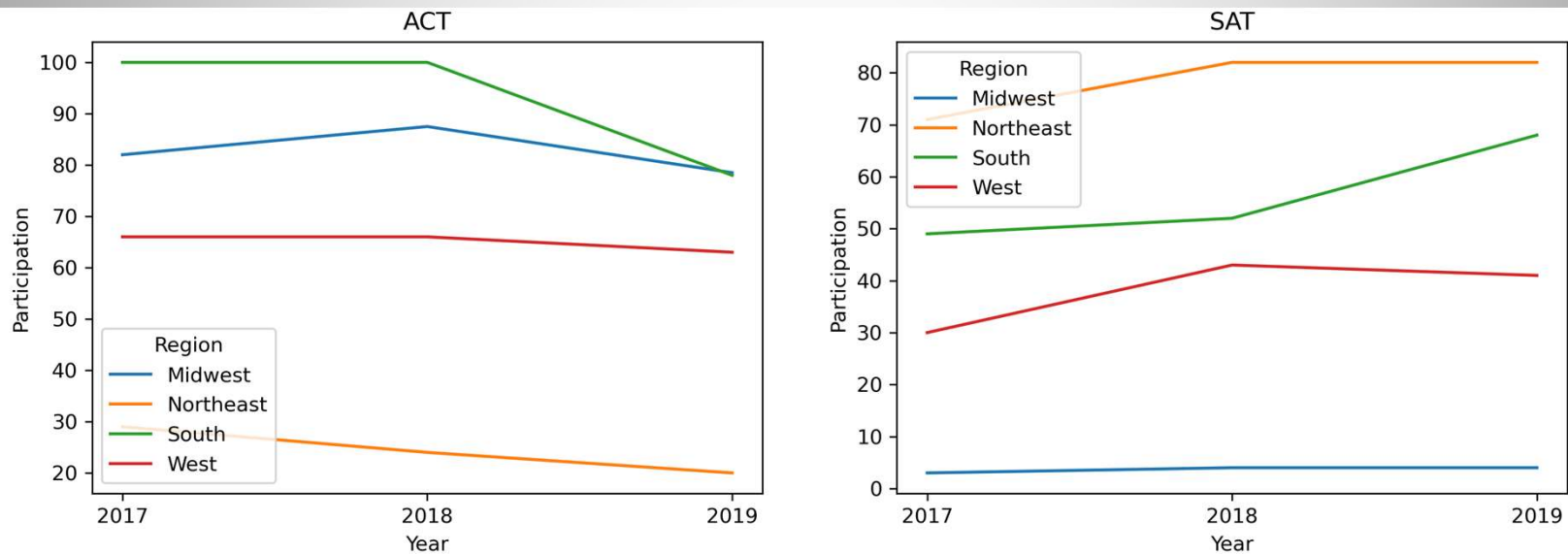


Figure 3: Participation Rate Trend per Region

RECOMMENDATION

- The SAT has gained popularity over the ACT, particularly in the Northeast. However, its dominance is less pronounced in the Midwest. To increase participation rates in the Midwest, efforts could be made to make the SAT more accessible to students in the region.

THANK YOU FOR LISTENING.

ANY QUESTIONS?