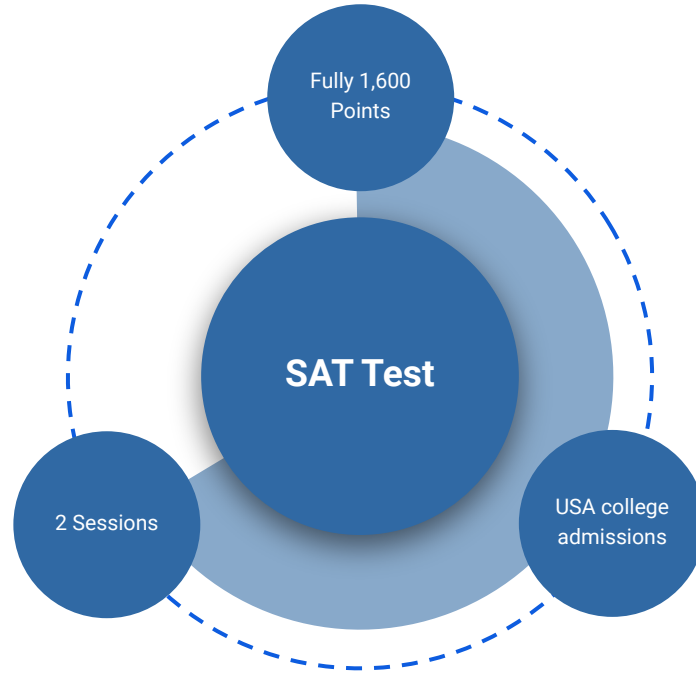


Most states that have a participation rate of less than 40% will have above-average SAT scores.



What is the SAT ?



Problem Statement

- The overall average SAT scores between 2017 and 2019 showed a **downward trend**.
 - **Participation rates varied** across states in the United States during this period.
 - To better understand this trend, it is important to explore the **relationship between participation rates and average SAT scores** in each state.
-

Categorizing SAT Scores Based on Participation Rates

Average SAT Score By Participation Rate

0 - 20% = 1209.88

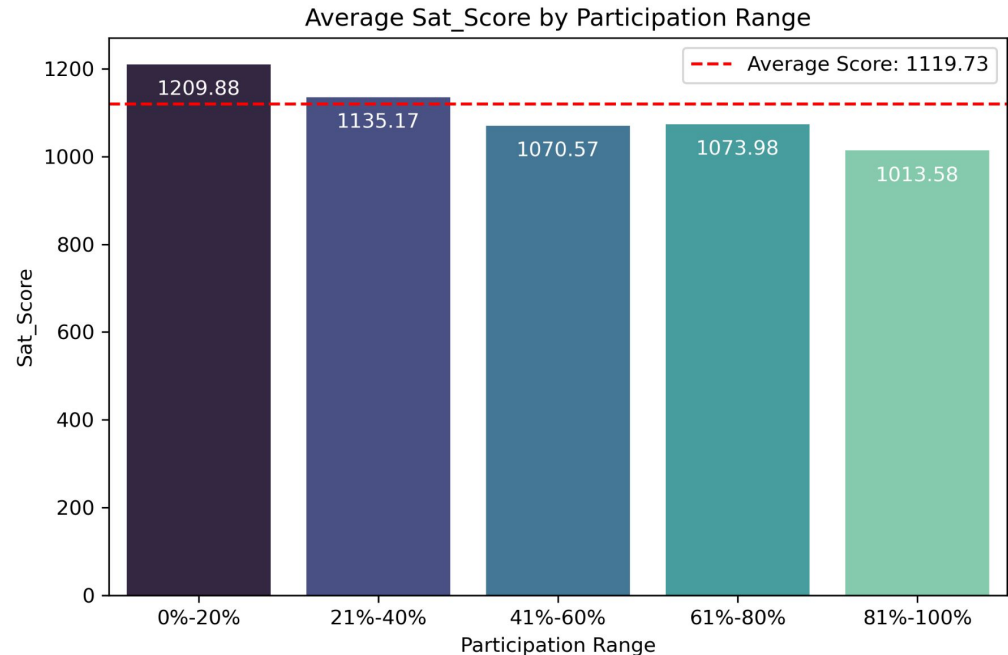
21% - 40% = 1135.17

41% - 60% = 1070.57

61% - 80% = 1073.98

81% - 100% = 1013.58

**Less than 40% of participation rate
above average-SAT score**

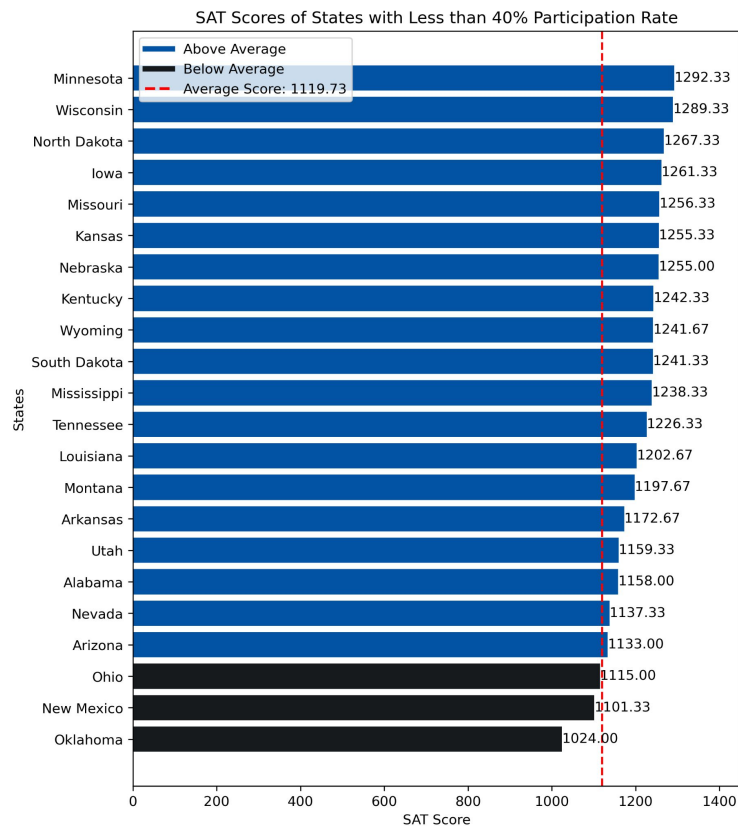


Breakthrough Less than 40 Participation Rate

19/22 States

that over average- SAT score

Only 3 States the on below of average-SAT score :
Ohio, New Mexico, Oklahoma



Conclusion

83% of states have a participation rate of less than 40%, while the SAT scores are above average in all of these states. Additionally, in these states, at least 65% of students participated in the ACT, showing a forward trend.

Keys Factors

The hypothesis is influenced by key factors:

- ❖ Selection Bias
 - ❖ Focus on ACT
 - ❖ School Policies
-

Recommendation

- ❖ Encourage to Increases participation
 - ❖ Focusing on Underserved Groups
 - ❖ Awareness Campaigns
 - ❖ Long-Term Data Studies
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