2017 - 2018 Analysis of SAT Scores Sang Cheon

Problem Statement

• Collegeboard has informed us that there has been a sudden drop in overall average SAT scores in some states from the year 2017 to 2018. Whether this is a random phenomena or not, we wanted to use statistical analysis to derive if there is any particular reason behind such phenomena.

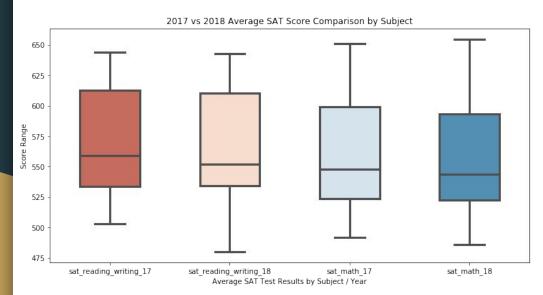
Methodology

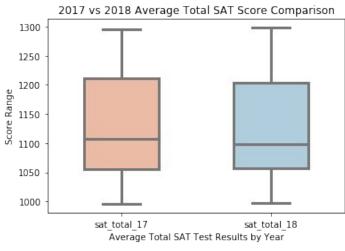
- Confirm data originally proposed theory (is there really a drop in average SAT scores?)
- Sort through the states to identify particular problematic States
- Verify whether there is a correlation between the significant drop in SAT scores vs. participation rate from 2017 to 2018

Data Source:

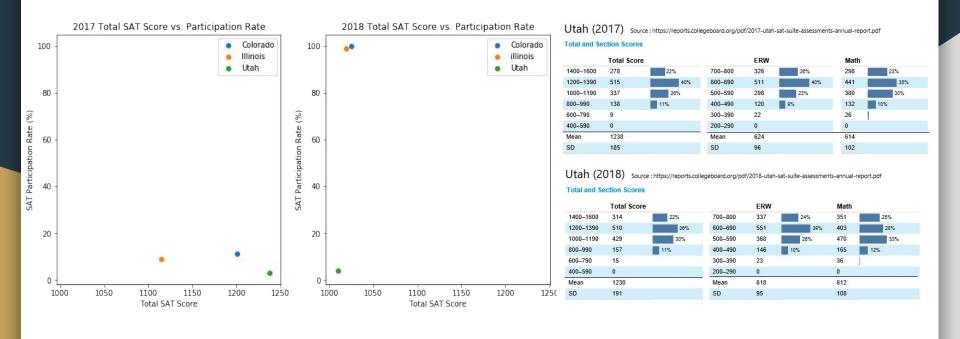
2017 & 2018 Average SAT Scores by State (Collegeboard : Official SAT Conducting Organization)

Average SAT Test Results (Subject / Overall)





Total SAT Score Comparison (2017 vs. 2018)



Conclusion

- Colorado & Illinois: Strong correlation between the two specific state's to new policy mandating the SAT examination as a high school graduation requirement and the drop in the overall average of their respective SAT scores.
- Utah: we were able to conclude the sudden drop in SAT scores was due to misinformation provided by the Collegeboard's dataset through further research.

Recommendation

• Students need more time to adjust as well as more of a formal education regarding the SATs to better prepare them

Furthermore . . .

• We would like to investigate other implications on the specific subjects of the SAT given that we have a reliable dataset.