SAT & ACT Analysis

Overview

- Problem Statement
- Objective
- Methodology
- Data Analysis
- Recommendations

Problem Statement

Although ACT has been the overall leader since 2012, it was reported that more graduating seniors are taking the SAT in 2018. The college board which owns the SAT has pushed to expand its market share through revising their test and making deals with states, but they would like more insight on where they should focus their resources.

Objective

This project aims to assist the college board on their strategy to increase student participation and increase their number of students being accepted to college.

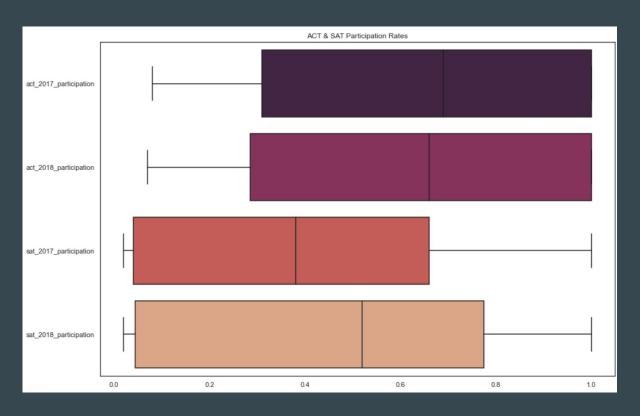
Methodology

Scrape and Clean Data Preparation for analysis **Exploratory Data** Find trends and patterns within dataset Analysis Plot useful graphs and table Visualize Data Use inferential statistical analysis to describe Provide College Board with recommendations to Recommendations increase participation rates and student scores

Data Analysis:

Explore trends in SAT and ACT participation and how students are performing across states

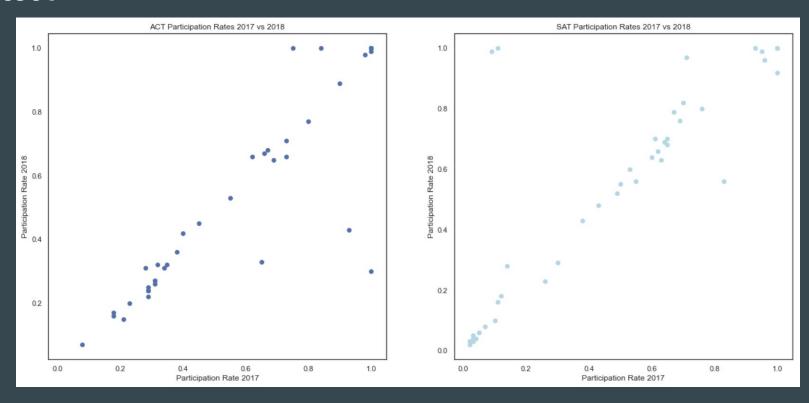
Which test has a higher participation rate?



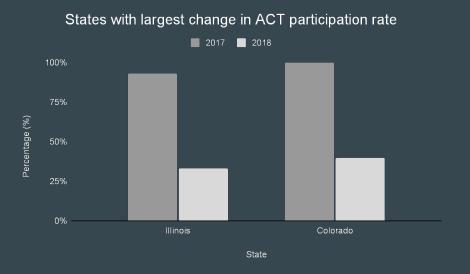
 ACT participation rate dropped slightly, while SAT participation rate rose significantly

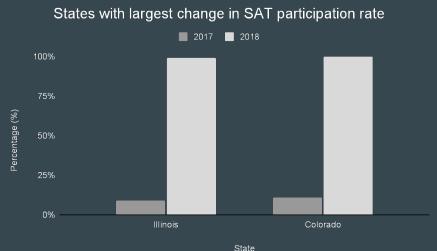
 ACT participation rates in some states are close to 100%, while SAT participation rates is some states are close to 0%

Which states have significant changes in participation rates?



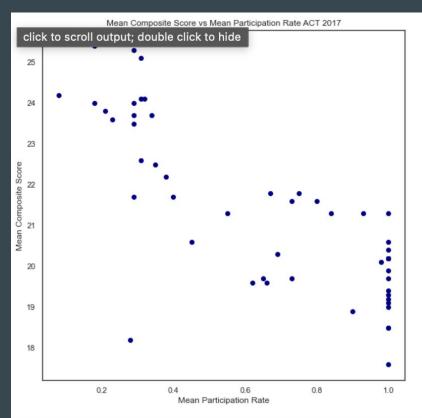
Colorado & Illinois

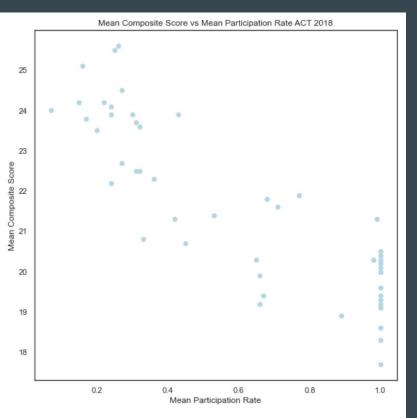




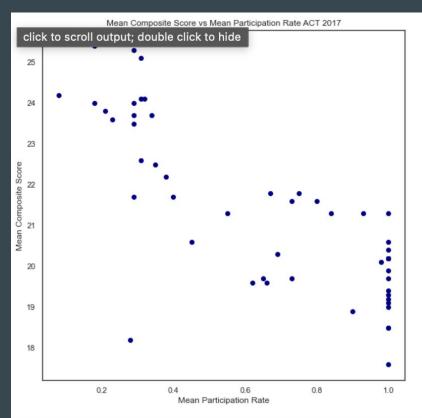
- Colorado made SAT compulsory in mid-2017
- Illinois provided the SAT not only as a mandatory college exam, but also a measure of school achievement

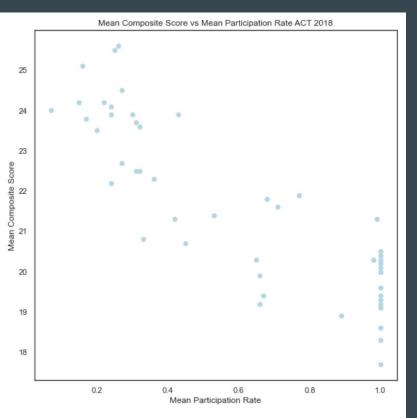
Which states performs better overall for SAT?





Which states performs better overall for SAT?





Recommendations

- Partner with study platforms to provide free official SAT material to have a further reach to states with lower participation rates,
- Focus more resources to preparing students in states with higher participation rates