

SAT ANALYSIS

PROBLEM STATEMENT

- Our SAT test is criticized as being a tool that creates racial disparity. This critique stems from the idea that our exam gives an unfair advantage to students who attend white-majority schools.
- This project aims to identify, at the Colorado state level, the differences in participation rates and test scores of students by their race.
- From this information, CollegeBoard can improve funding decisions to ensure that our test is BIPOC inclusive. Achieving this inclusivity will allow us to achieve our mission of providing a fair measurement of success for all students.



What

- SAT scores
- SAT participation results
- Highschool Students of Colorado

When

• 2019 test results

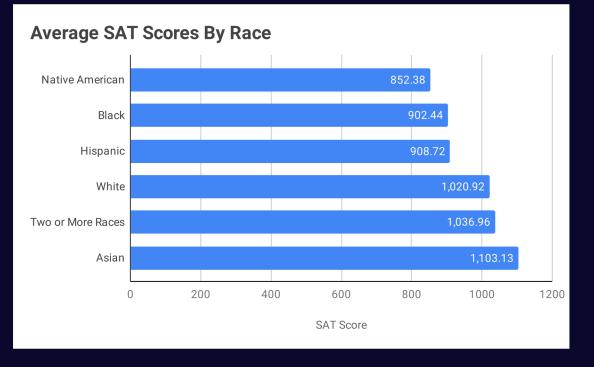
PROCEDURE METHODS

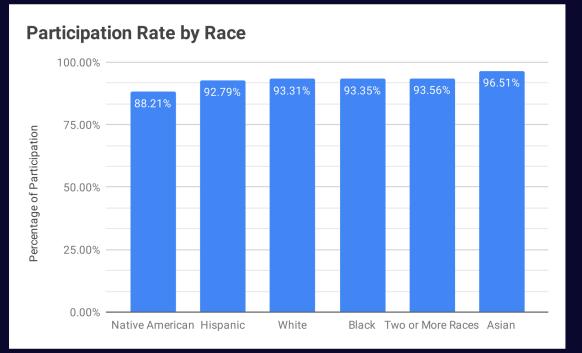
Where

 Colorado department of Education website

How

- Python to analyze data
 - Python and Google Sheets for graphs





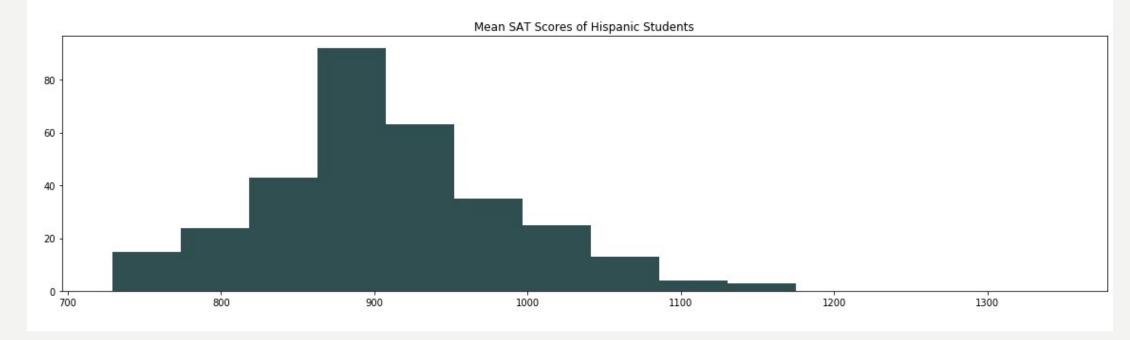
Lowest scoring students

Native American (852) Black (902) Hispanic (909)

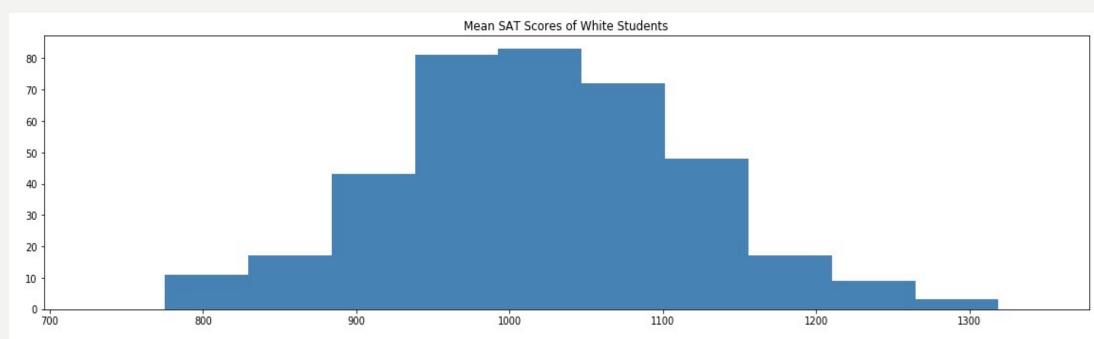
Highest scoring students
White (1021)
Asian (1103)
2 or more races (1037)

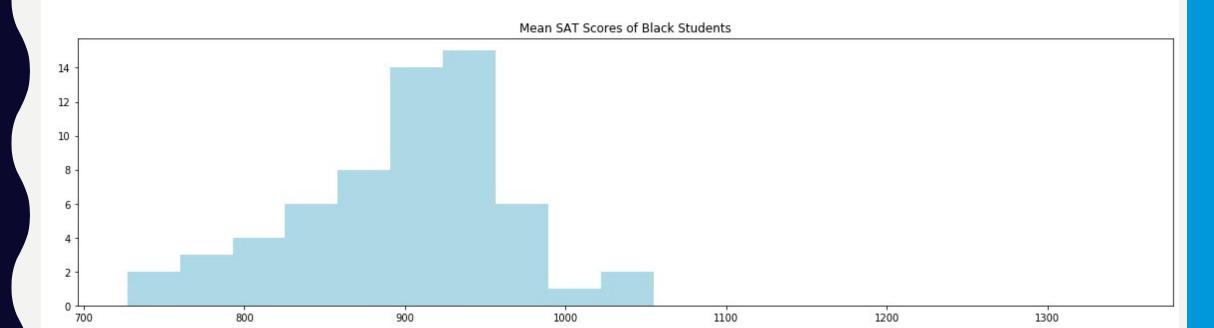
PRIMARY FINDINGS

SAT attendance rates were very similar by race

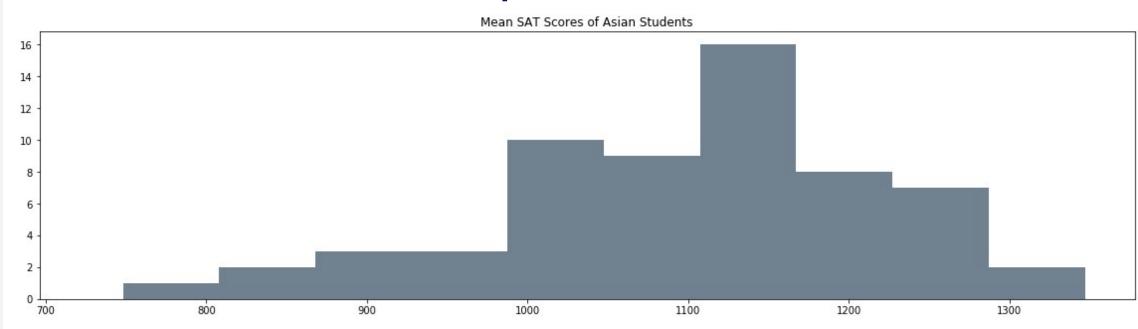


Hispanic students score 112 points less than their white peers.



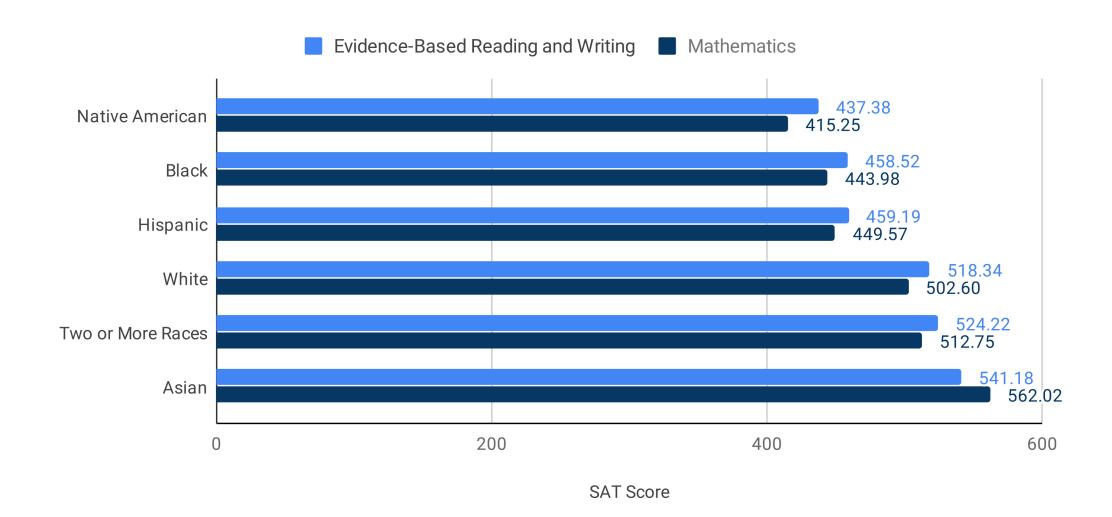


Black Student score 200 points less than their Asian Peers



Primary Findings

Average SAT Score By Race Per Section



CONCLUSION

NEXT STEP: MORE INVESTIGATION

- The SAT's racial achievement gap is a reflection of the racial inequities in our society as a whole.
 Reconciling this gap will lead to equalizing educational opportunities and is one way to dissimilate inequality.
- Now that we know SAT scores hold a racial bias, we must hypothesize the reasons behind this.
- Once we discover the "why's" behind this disparity,
 we can create appropriate programs and allocate
 funding properly to help solve this problem

Possible Items to Investigate:

- · What makes a student test better?
 - Take the SAT test more than once get better scores?
 - · What test Prep are these students using?
 - How are these items available to students across races?
- Do wealthier students get higher SAT scores?
 - Is this because of tutoring costs?
 - Is this because of testing costs?
- Do wealthier school districts get better Scores?
 - Gifted and Talented programs available?
 - A/P courses available?
 - Test prep classes available?
- Drop out, suspension, unaddressed emotional/behavioral disorders?
- Who writes the SAT tests? Are the questions biases towards more affluent students?