

PROJECT 1:

An analysis of standardised tests

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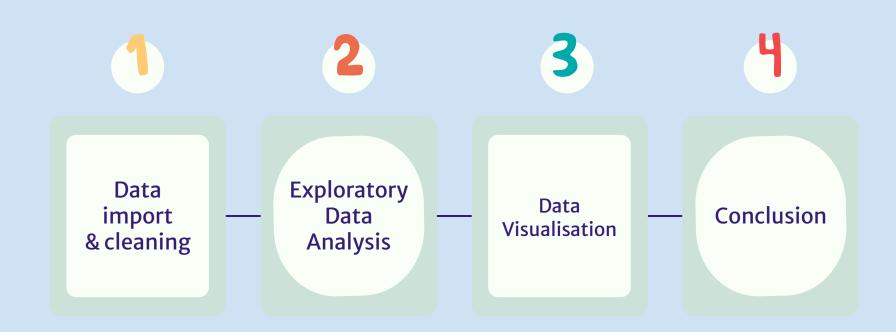
PROBLEM STATEMENT

You work for the ACT inc, the board that administers an entrance exam used by most colleges and universities to make admissions decisions.

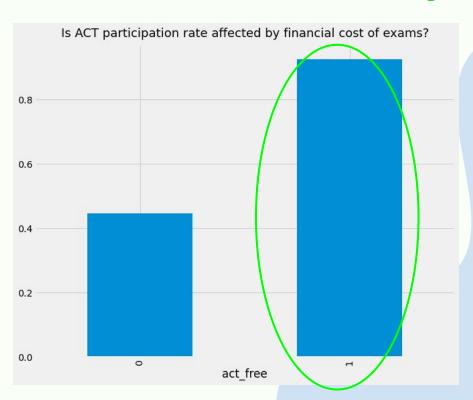
ACT participation rates are falling year-on-year, while the SAT participation rates are increasing. Since students intending to attend college/university in the United States can choose to sit for either the SAT or the ACT, the company is concerned. It aims to use your analysis to implement data-driven solutions in order to achieve improvement in the ACT participation rates in the coming year.

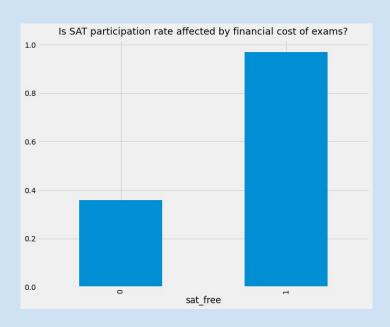
Your presentation and report should be geared toward non-technical executives of ACT inc and you will use the provided data and outside research to make recommendations about how the company might work to increase the participation rate in a state of your choice.

Workflow

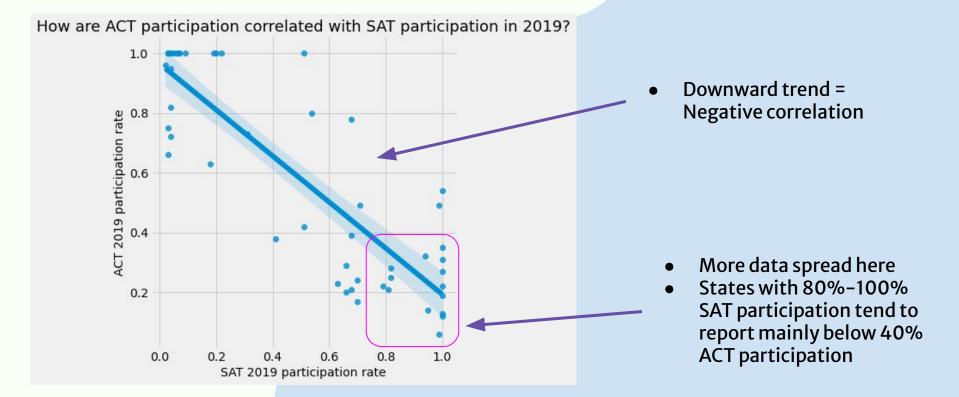


INSIGHT 1: Where the exams are free for students, participation rates are high!

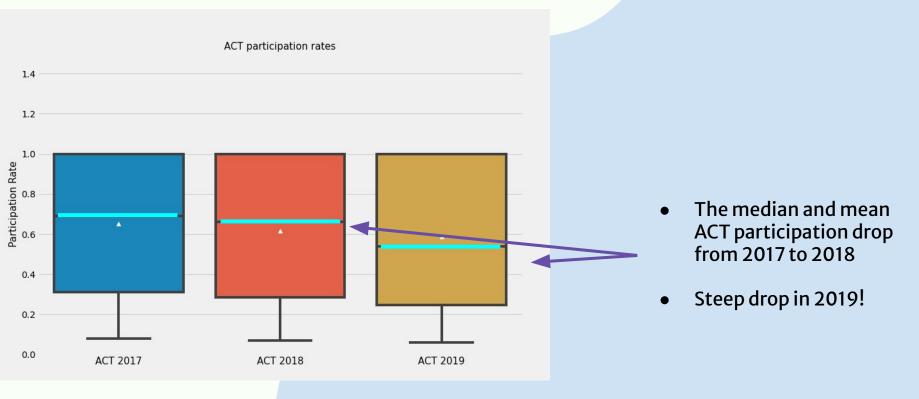




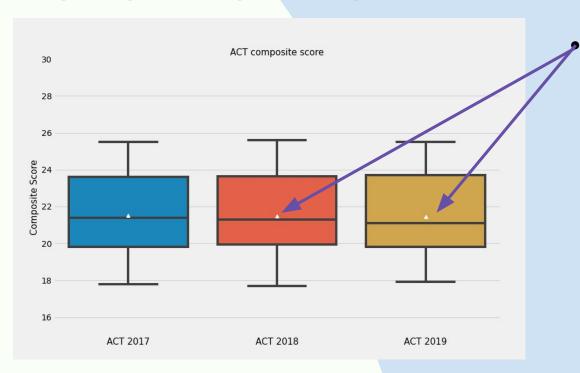
INSIGHT 2: Where SAT is prevalent choice, ACT participation rates are very low!



INSIGHT 3: Where the ACT is not mandatory and/or not free, participation rates keep dropping!



INSIGHT 4: In general, composite scores drop slightly from year to year!



Mean composite scores:

- o <u>21.51</u> (year 2017)
- o <u>21.49</u> (year 2018)
- o <u>21.46</u> (year 2019)



Maintain contracts with states/school systems that administer ACT for free

Increase market share to other states

Add focus on marketing ACT in states where SAT is prevalent choice

Angle it towards high-achieving students

Update test conditions to make it more equitable

 Helps boost performance of low-achieving students who form bulk of underserved student population