



# Standardized Tests & Graduation Outcome Prediction



Kira Helm



# Overview

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Many folks are questioning the necessity of standardized SAT and ACT tests as a means for preparation and measurement of college readiness in the United States.

Here, I aim to discover whether there is any correlation between SAT and ACT scores in relation to attainment for a bachelor's degree (graduation rate) at a four-year college in the United States.

# Data Sets:

## ACT Scores

ACT is a standardized test that includes 5 sections:

English  
Math  
Reading  
Science  
Writing

## SAT Scores

SAT is a standardized test that includes 4 sections:

Reading  
Writing and Language  
Math  
Essay writing.

## Graduation Rate

The graduation rate is based on:

4 - year colleges in US

Averaged as a percentage

# Main data source:



## US Department of Education College Scorecard

Url: <https://collegescorecard.ed.gov/data/documentation/>

# ACT scores in relation to Graduation Rate

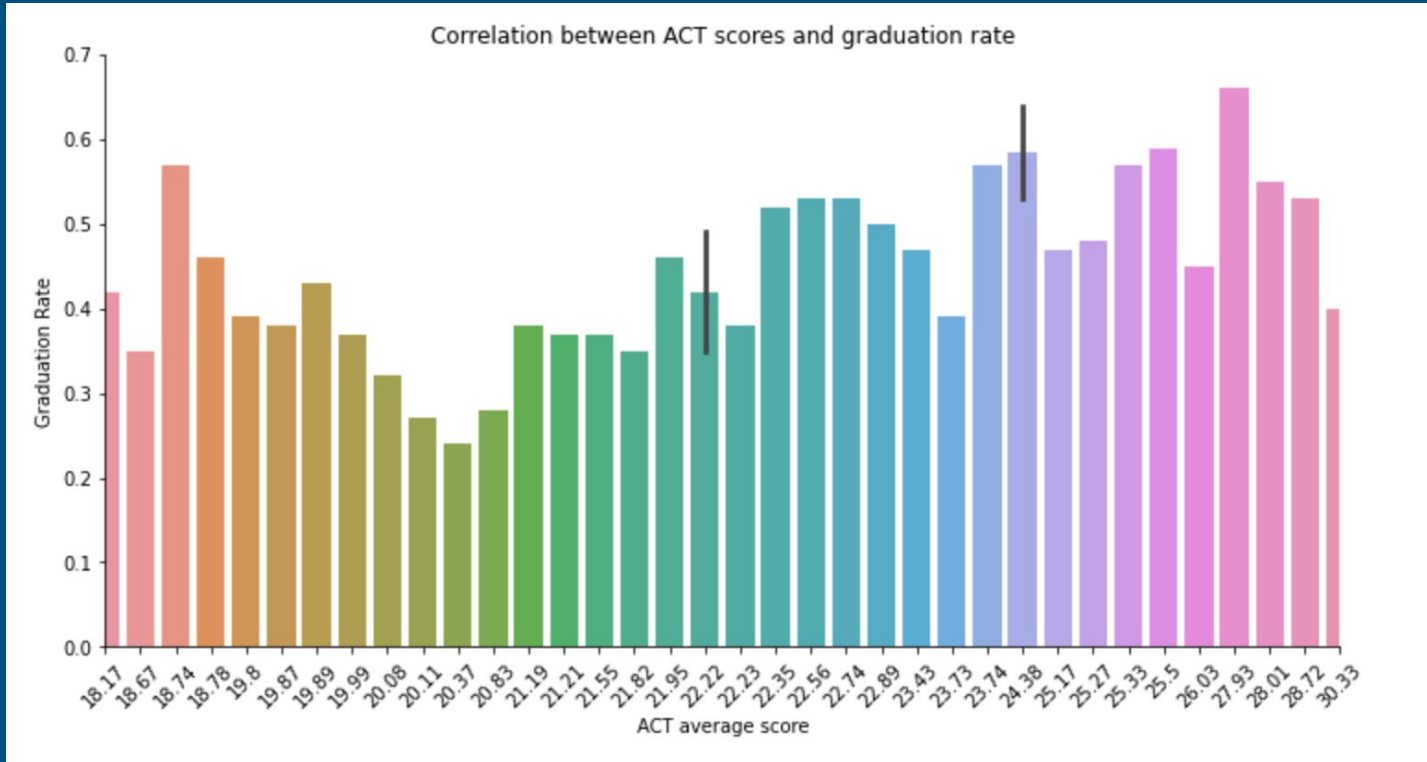


Photo by [Daniel Tuttleon](#) [Unsplash](#)

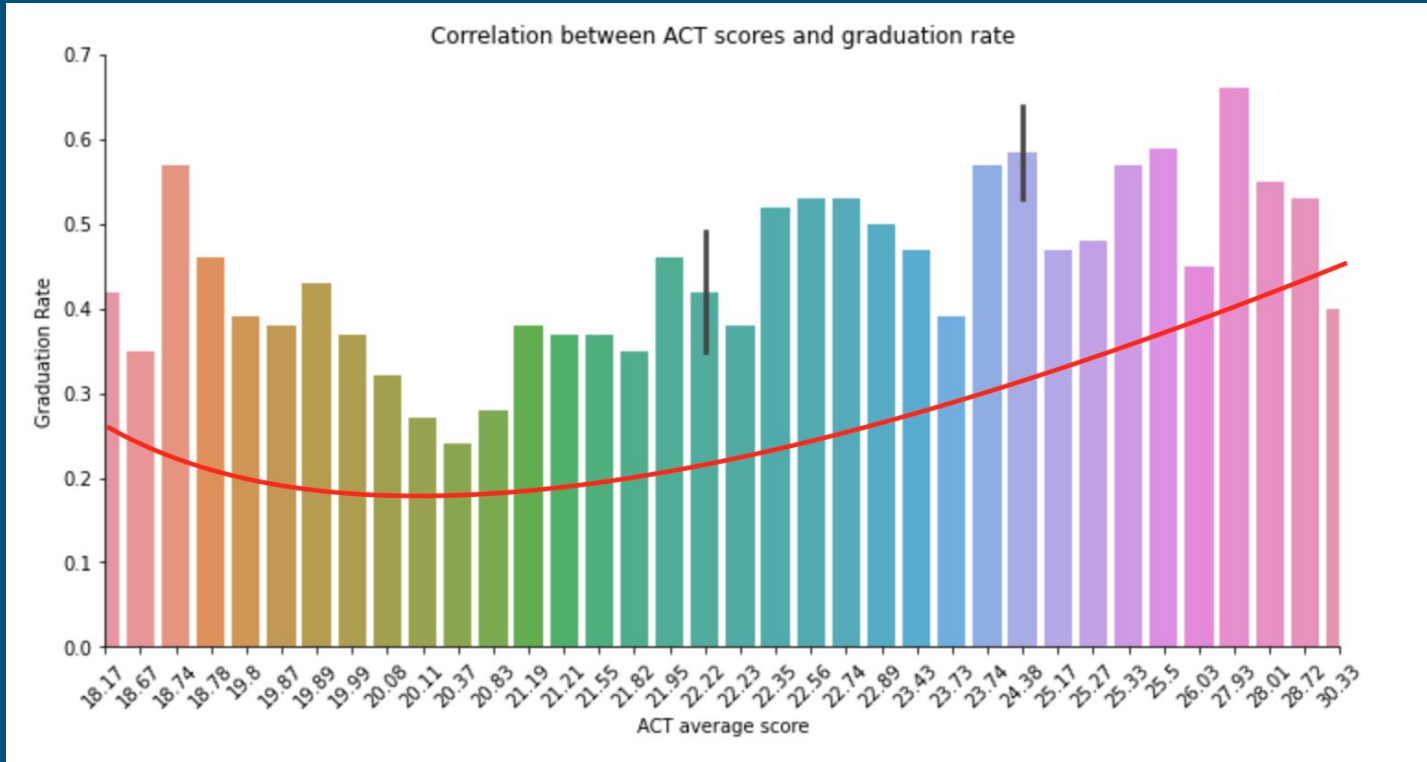
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What do you think we will find?

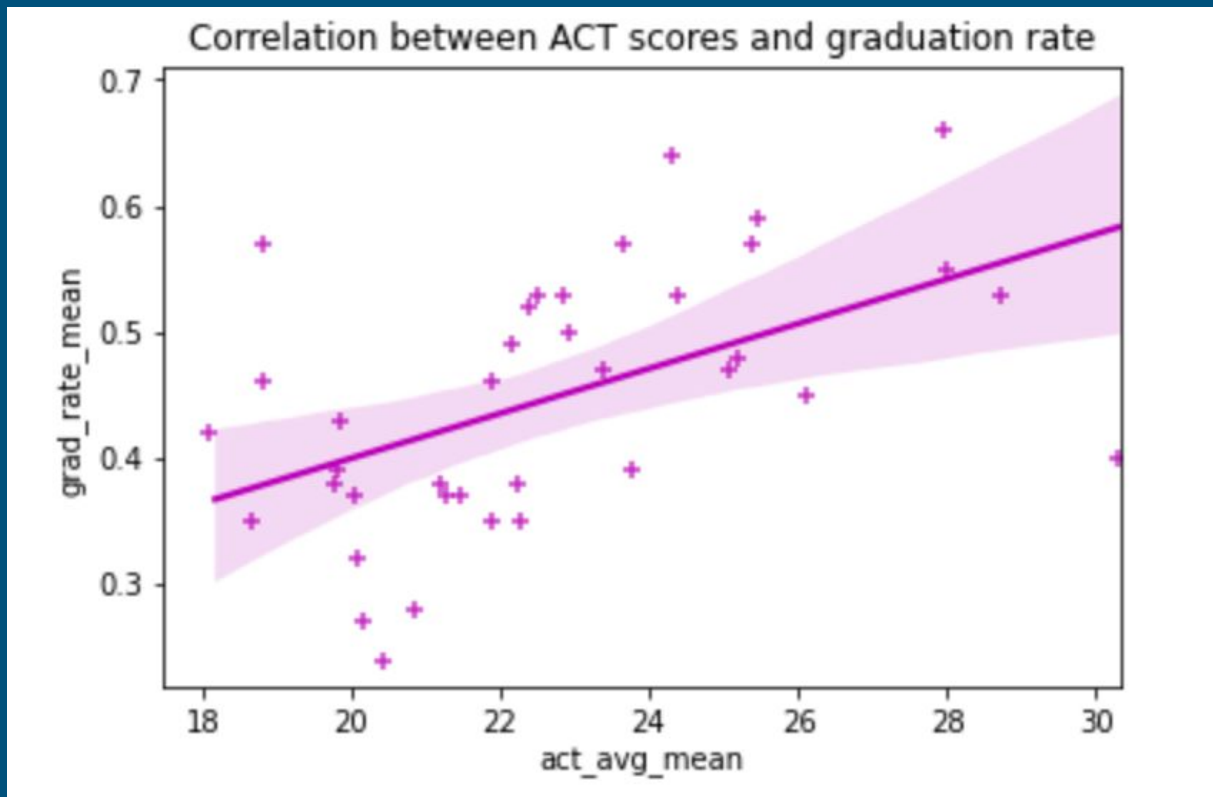
# ACT scores in relation to Graduation Rate



# ACT scores in relation to Graduation Rate



# ACT scores in relation to Graduation Rate





# SAT scores in relation to Graduation Rate

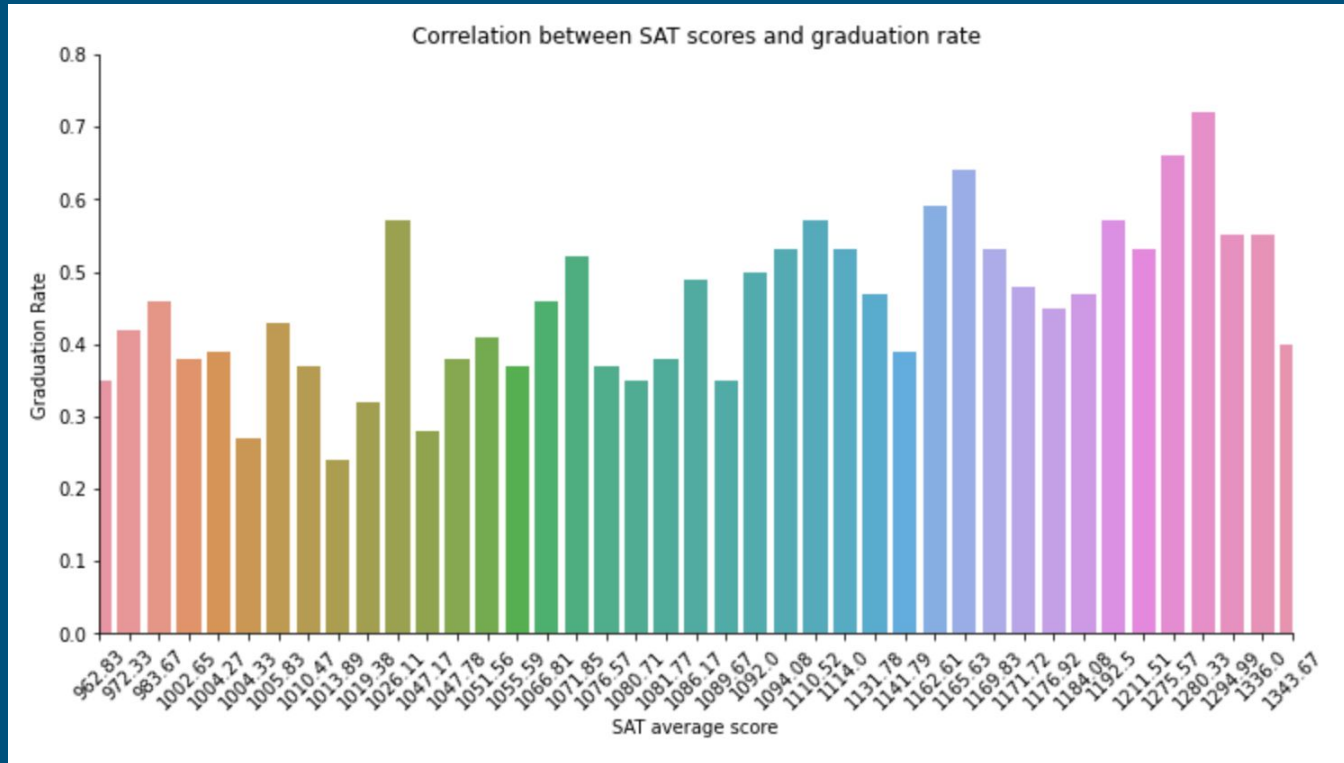


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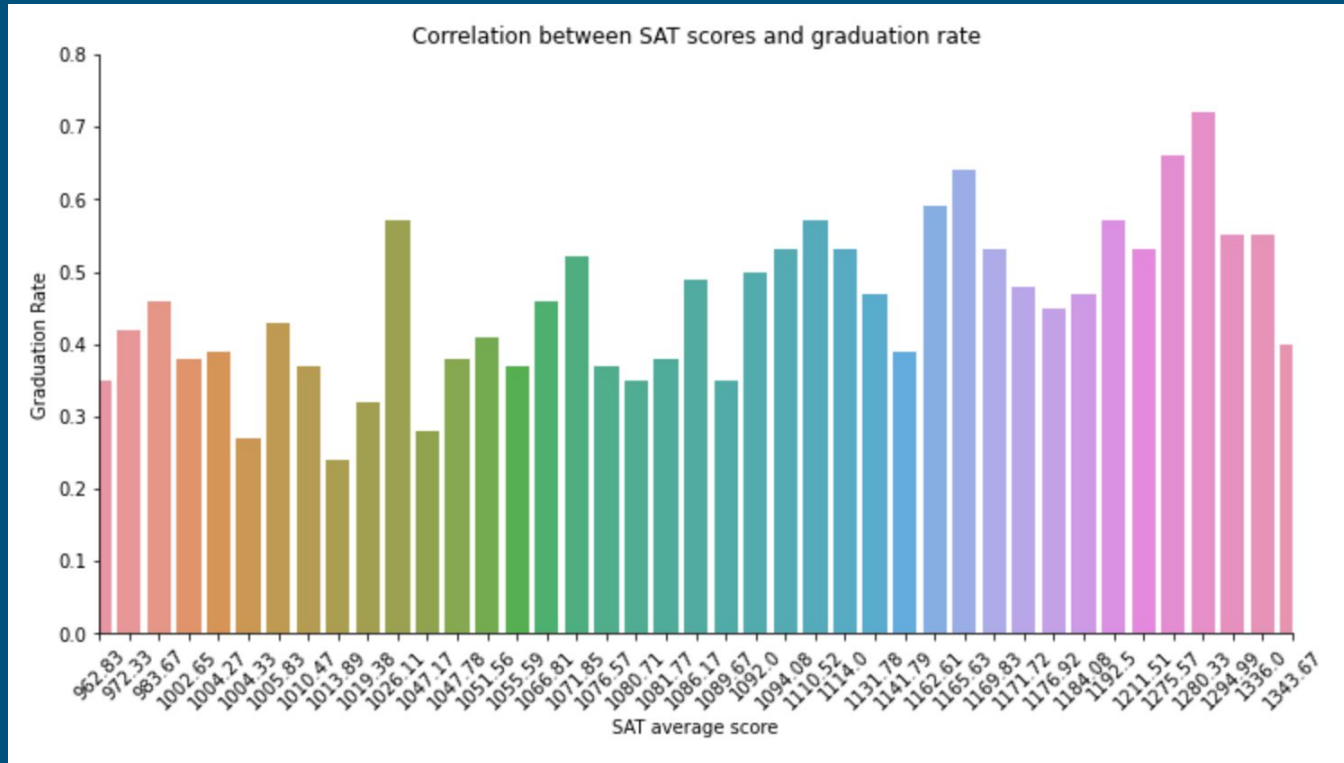
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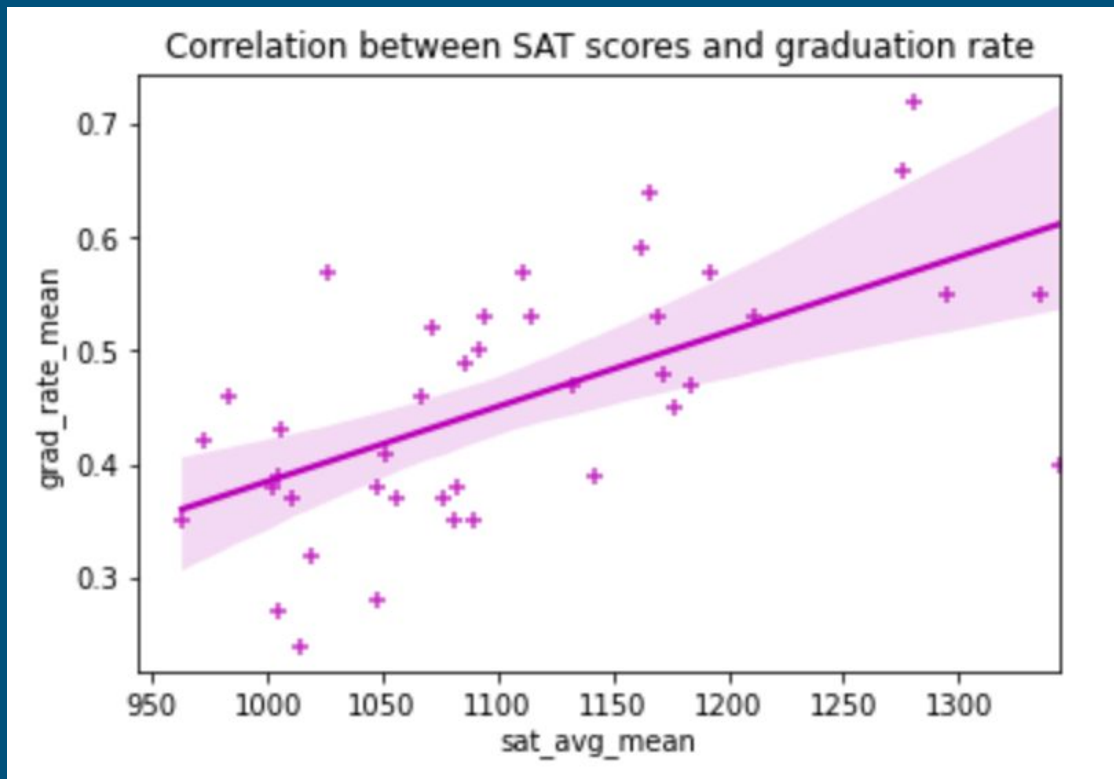
# ACT scores in relation to Graduation Rate



# ACT scores in relation to Graduation Rate



# ACT scores in relation to Graduation Rate



# Trend analysis

## Findings

There may be some correlation with both ACT and SAT scores and college outcomes.

The SAT test seems to have more of a prominent correlation.

More data samples needed.



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