



Exploring Regional Comparison of Participation rate and Performance in SAT and ACT: 2017–2019

By Arkira Wongsim



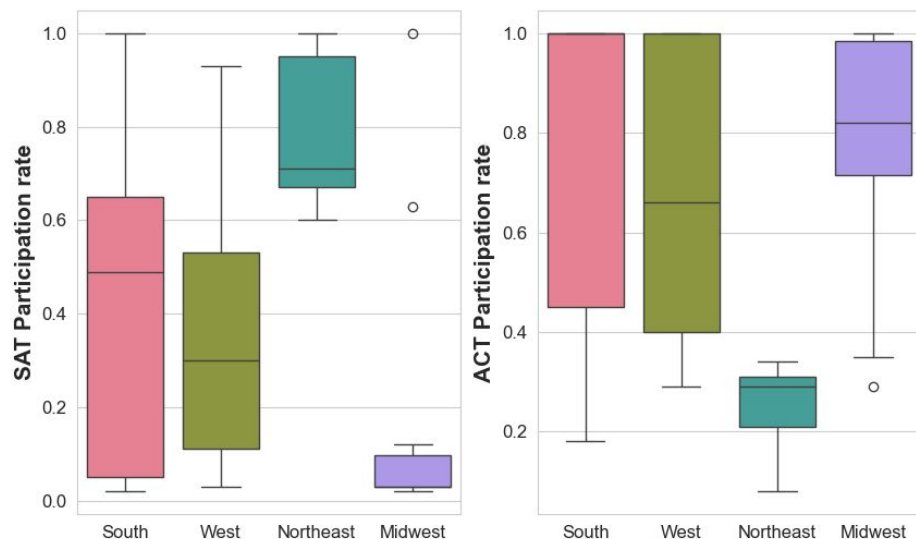
Problem Statement :

Regional Comparison

- ❑ There are **difference pattern of participation rate** between SAT and ACT accross each regional over three years.
- ❑ There are **Positive Relationship** between the score the same field of subjects

Regional Comparison ACT-SAT participation (2017)

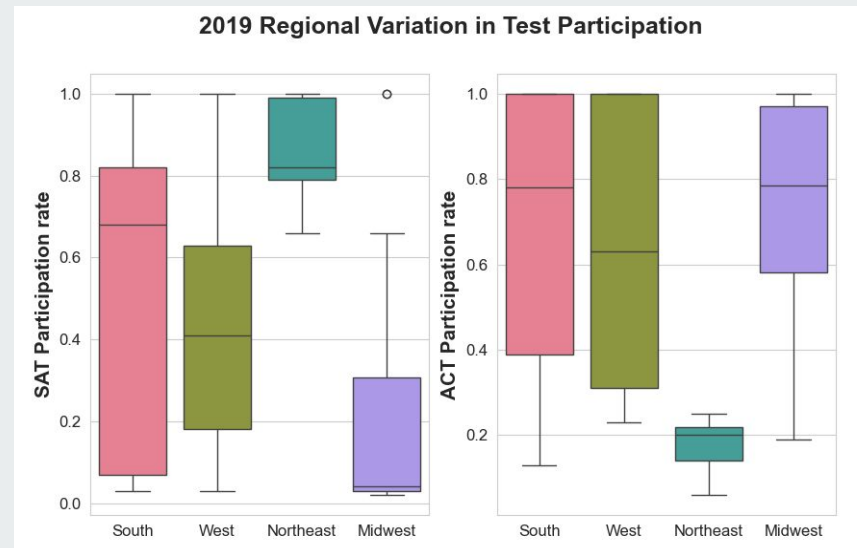
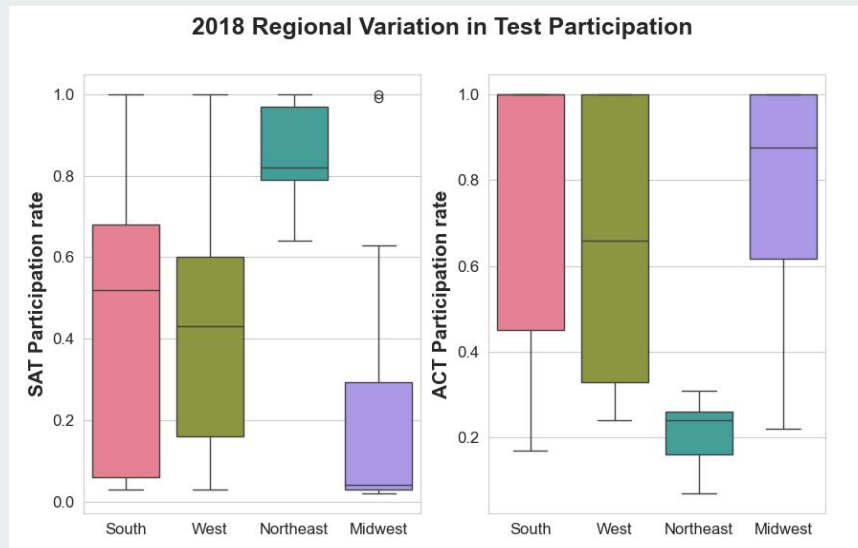
2017 Regional Variation in Test Participation



Opposite regional preferences

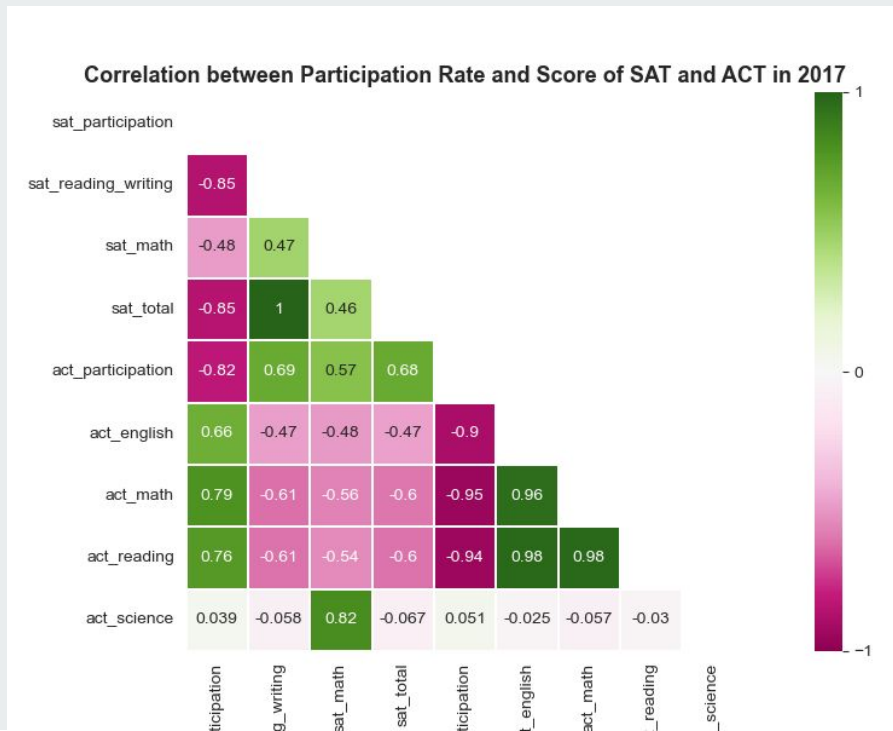
- The **Northeast** and **Midwest** appear to participating almost exclusively in one exam.
 - The students in **Northeast** prefer to having the **SAT**.
 - While the **Midwest** student tend to take the **ACT**
- **South and West** shows less participation gap between two region

Regional Comparison ACT-SAT participation (2018)



Each states still have fimilar regional preferences across three year and shows less participation gap between two test, especially Midwest.

Relationship between the score the same field of subjects across the country in 2017



Answers to the Problem Statement :

- ❑ There are **difference pattern of participation rate** between SAT and ACT accross each regional over three years.
- ❑ There are **Positive Relationship** between the score the same field of subjects

Limitation: Completeness of Data

ACT English, Math, Reading and Science score in 2018 and 2019

Recommendation:

- ❖ longer term
- ❖ collect more specific data
(each school)

**THANK YOU
FOR LISTENING**

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