



# **Standardized Test Analysis Project 1**

Goh Yan Da



# **Table of contents**

**01**

**Background**

**02**

**Problem Statement**

**03**

**Methodology**

**04**

**Discussion &  
recommendations**

# Background

Originally established in the US in 1926, developed by the college board for high school students.

- **College Admissions**
- **Indicator of Success**
- **Consists of 3 sections:**
  - Reading
  - Writing
  - Math

However, as of fall 2022 SAT is no longer required in most Universities in the US.



# Problem Statement

In **2018**, top ivy universities such as Harvard **dropped** the SAT requirement for **university application**, how did it affect the **total SAT scores and participation rates?**

The slide features a light blue background with decorative autumn leaves in shades of blue, orange, and yellow scattered around the edges. The text is centered and uses a mix of purple and orange colors for emphasis.



# Methodology

Using historical data of past SAT scores from 2017 to 2019

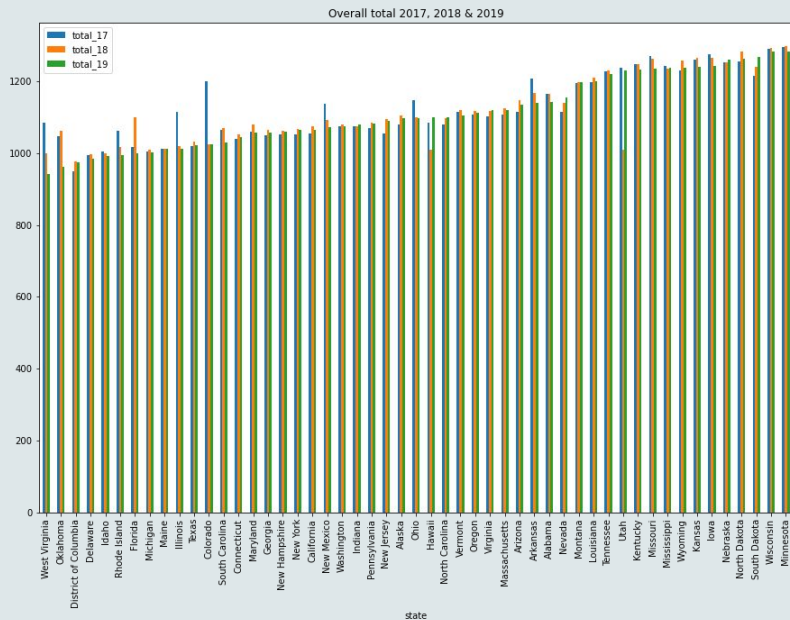
- **Total scores**
- **Participation rates**

Data is filtered and sorted and unwanted columns removed.

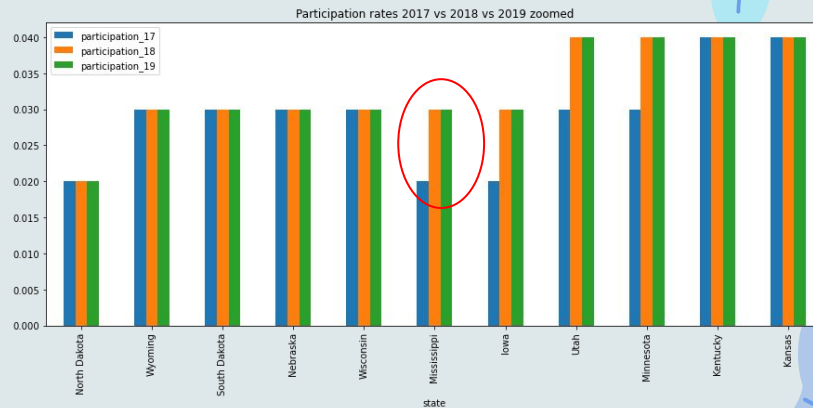
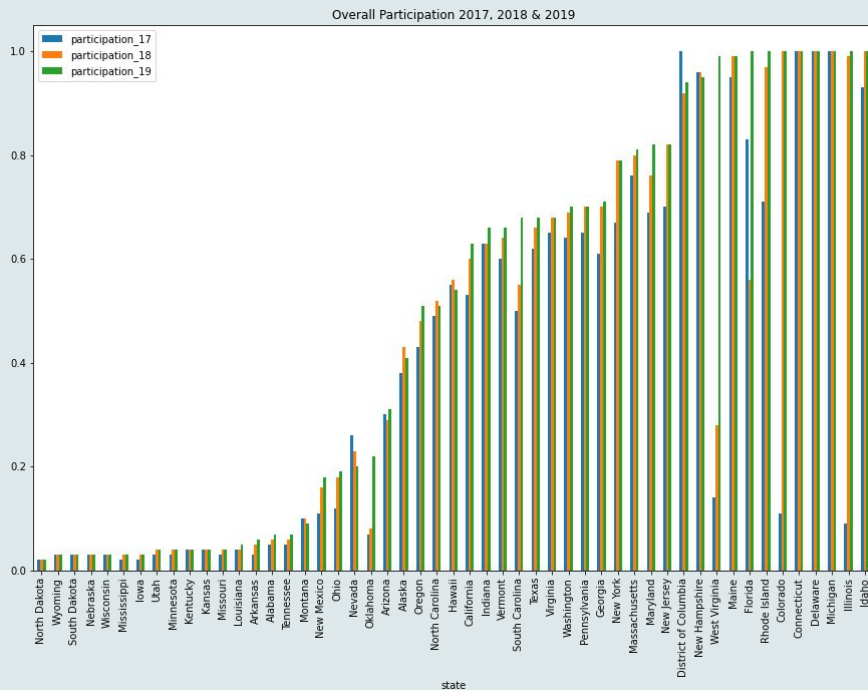
Using python libraries such as matplotlib, numpy, and pandas.



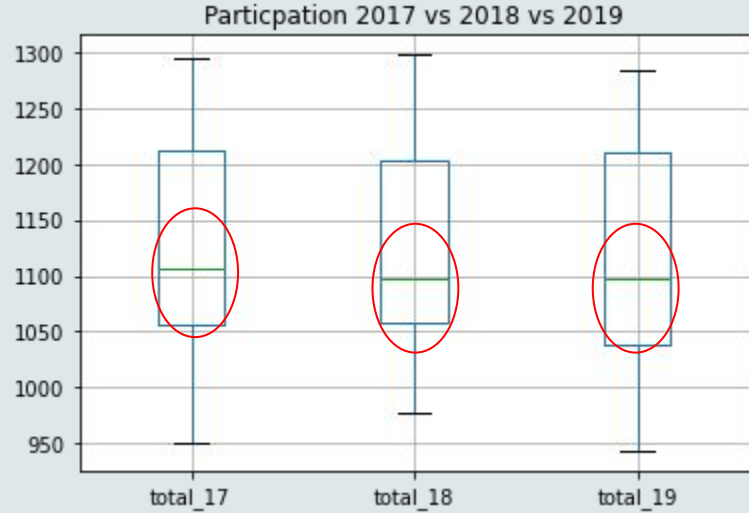
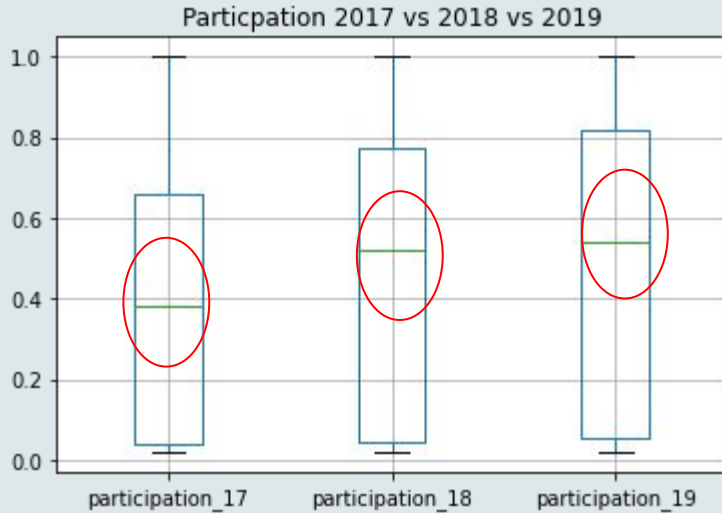
# Total Scores



# Participation



# Box plot Representation





# Conclusions

Did the Top Ivy Universities had an influence?

- **Total score – decreased slightly**
- **Participation rates– no significant change**


	state	total_17	total_18	total_19
48	West Virginia	1086	999	943
36	Oklahoma	1047	1062	963
8	District of Columbia	950	977	975
7	Delaware	996	998	985
12	Idaho	1005	1001	993
39	Rhode Island	1062	1018	995

	count	mean
participation_17	51.0	0.398039
total_17	51.0	1126.098039
participation_18	51.0	0.457451
total_18	51.0	1120.019608
participation_19	51.0	0.490588
total_19	51.0	1113.078431

	state	participation_17	participation_18	participation_19
34	North Dakota	0.02	0.02	0.02
50	Wyoming	0.03	0.03	0.03
41	South Dakota	0.03	0.03	0.03
27	Nebraska	0.03	0.03	0.03
49	Wisconsin	0.03	0.03	0.03
24	Mississippi	0.02	0.03	0.03



# Recommendations

- Identify if there is other external factors that might affect the SAT and participation rates (Pandemic, changes in learning structure, political background)
  - Fee waivers of the 60 USD allowing more students to take the SAT
  - Checking the averages of college students to identify if SAT is a good indicator of success
- 

A decorative border surrounds the central text. It features stylized autumn leaves in shades of yellow, orange, and light blue. At the bottom corners, two orange hands with yellow cuffs are shown holding the blue frame. The background is a light gray.

# Questions