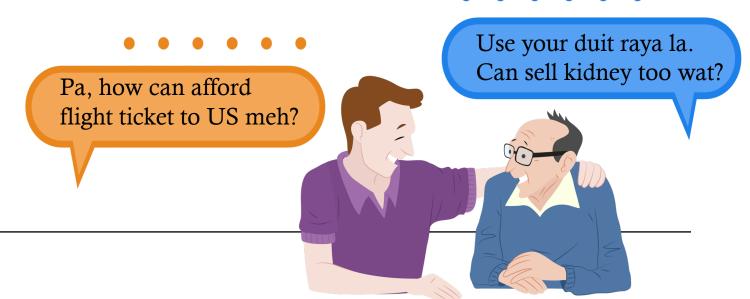


### PROBLEM STATEMENT

• Mr. Abu recently got job offer and need to migrate to California, United States. His son, Samad just recently turn 17 years old and is migrating to US with him. Mr. Abu in dilemma to find best college to admit his son and how to secure place in that top flight college too. The goal of this survey is to find possible universities for Mr Abu's son to enter with their requirement scores. This includes the best states with high entrance test scores to live in.





01

Entrance test relevant?

02

Which test has highest participation and the reverse stats?

03

Which school contained high scores mark student & which is most lenient?

04

Which state pass with flying colour & which state does not?

### ACT VS SAT

### **BACKGROUND**

- 51 states in US
- Dataset use includes:
  - ACT Data (2017 & 2019)
  - SAT Data (2017 & 2019)
  - SAT & ACT By Intended College (2021)

# ACT DATA (2019 – 2017)

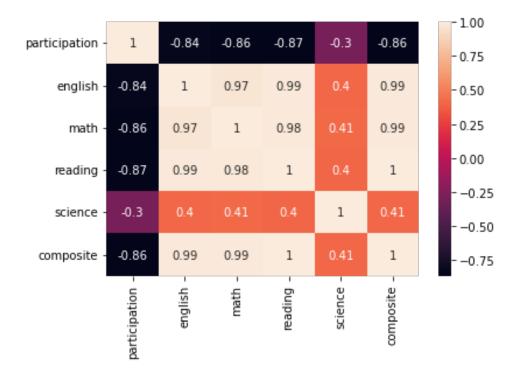
### Participant

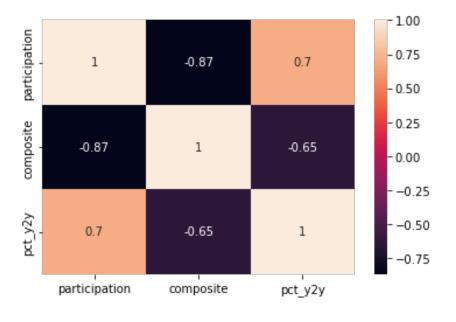
- Contain 51 states
- Mean participant is 0.59 –
  0.65
- Minimum participant is 0.06 0.08
- Max participant is 1

### Composite

- Mean is 22 21
- Minimum is 18 18
- Max is 26 26

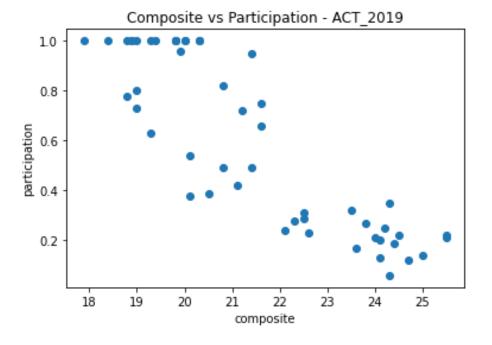
# ACT DATA YEAR 2017





# ACT DATA YEAR 2017

# Composite vs Participation - ACT\_2017 10 0.8 0.6 0.2 18 19 20 21 22 23 24 25 composite



# SAT DATA (2019 – 2017)

### Participant

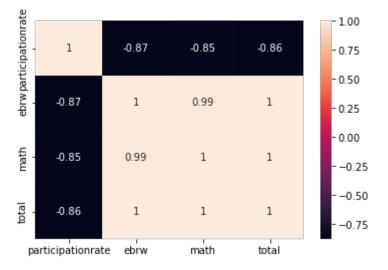
- Contain 51 states
- Mean is 0.50 0.40
- Minimum is 0.02 0.02
- Max is 1

### Total

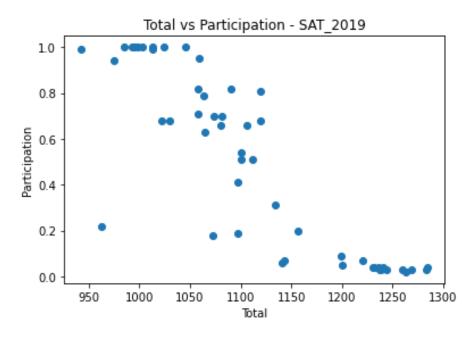
- Mean is 1113 1126
- Minimum is 943 950
- Max is 1284 1295

# SAT DATA YEAR 2017





# SAT DATA



# SAT ACT STATS BY COLLEGE (2019 – 2017)

### **Applicants**

- Contain 416 college
- Mean is 17482
- Minimum is 211
- Max is 111322

### Accept Rate

- Mean is 0.56
- Minimum is 0.04
- Max is 0.99

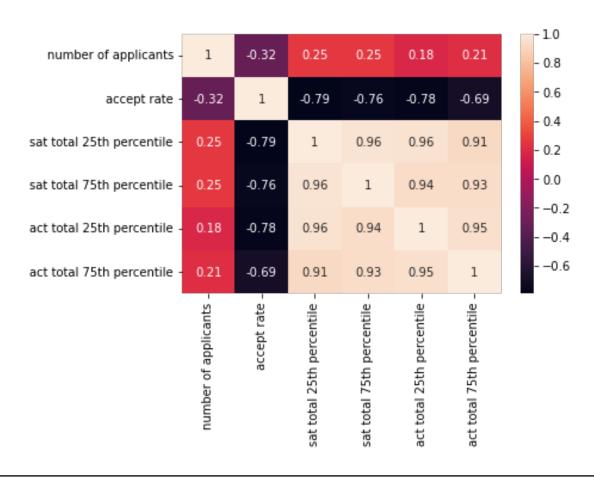
### Total 25 percentile SAT

- ACT
- Mean is 1166 24
- Minimum is 793 15
- Max is 1530 35

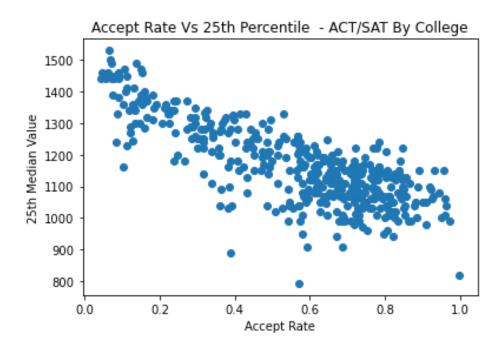
### Total 75 percentile SAT

- ACT
- Mean is 1358 30
- Minimum is 1050 19
- Max is 1580 36

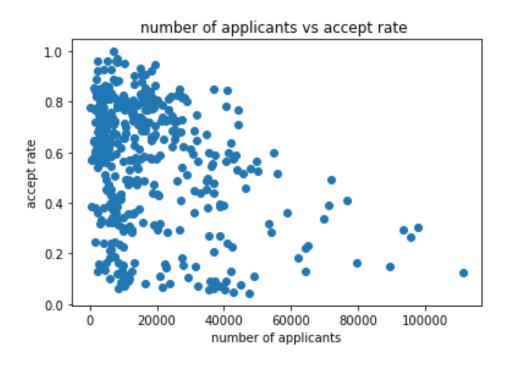
### SAT ACT STATS BY COLLEGE



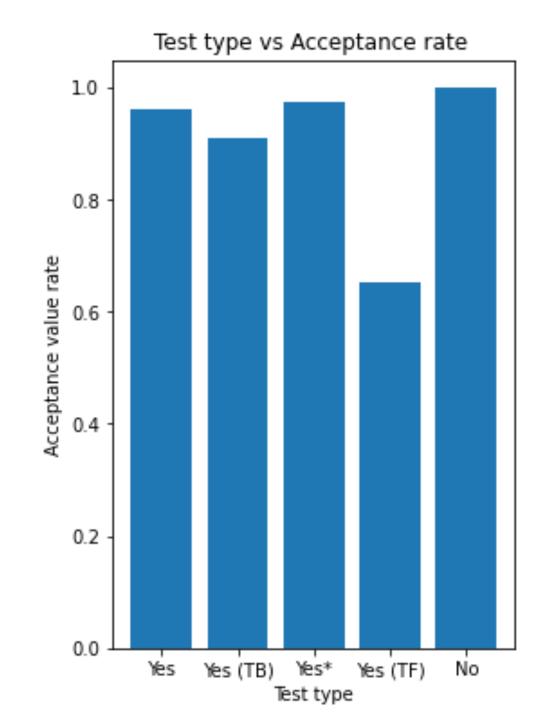
# SAT ACT STATS BY COLLEGE YEAR 2021



# SAT ACT STATS BY COLLEGE



# SAT ACT STATS BY COLLEGE



### Average Cost of In-State Tultion & Fees, Most to Least Expensive

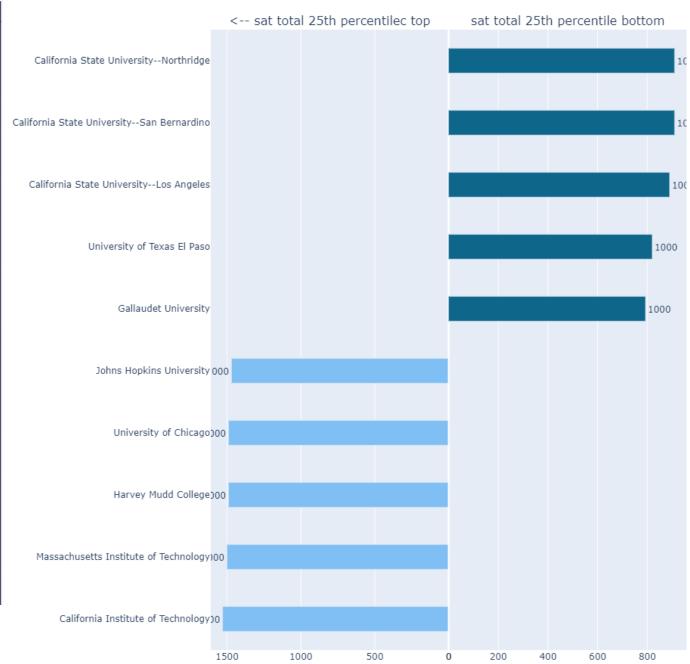
### Comparison of composites of countries by states for act test in the years 2017 and 2019



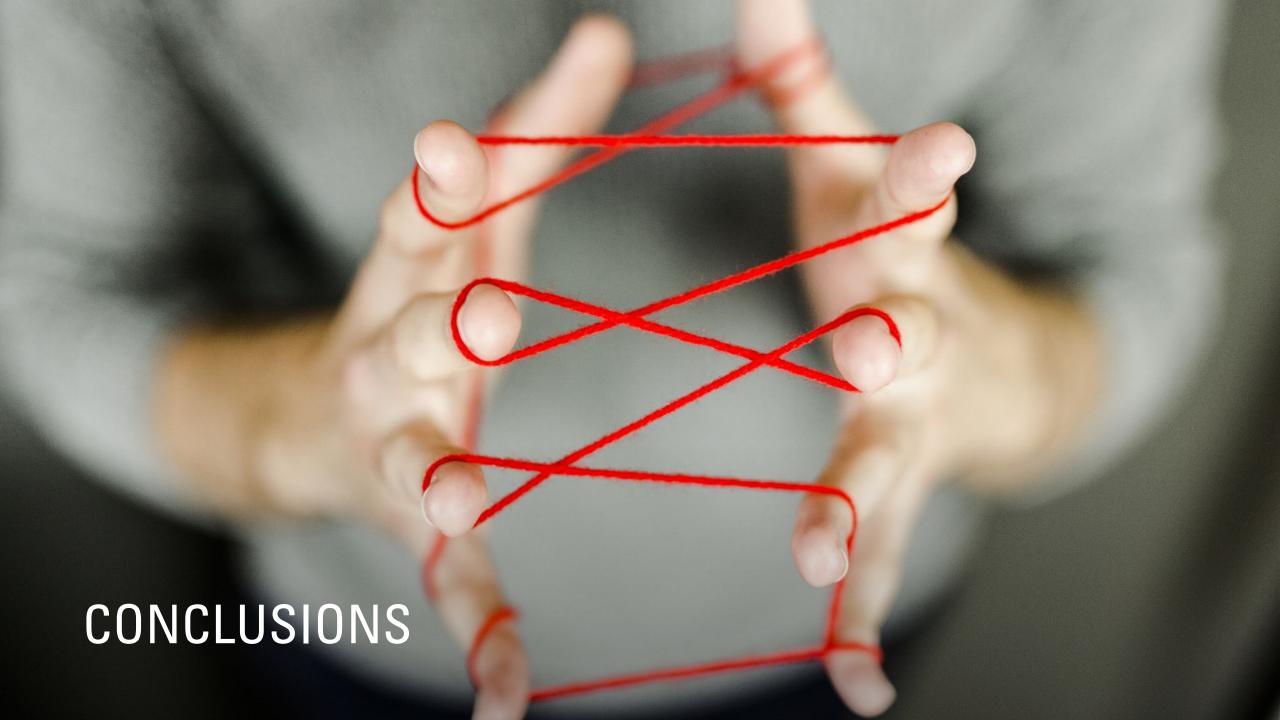
### Average Cost of In-State Tultion & Fees, Most to Least Expensive

Rank	State	In-State Tuition & Fees
1	Vermont	\$17,083
2	New Hampshire	\$16,679
3	Pennsylvania	\$15,565
4	Illinois	\$14,455
5	New Jersey	\$14,360
6	Connecticut	\$13,886
7	Massachusetts V	\$13,729
22	Maryland	\$9,714
23	Louisiana	\$9,571
24	Iowa	\$9,373
-	U.S. Average	\$9,349
25	Indiana	\$9,268
26	Colorado	\$9,144
27	Kansas	\$9,088
28	Missouri	\$8,992
29	South Dakota	\$8,978
30	Wisconsin	\$8,764
31	Arkansas	\$8,689
32	North Dakota	\$8,628
33	Mississippi	\$8,604
34	Texas 🔀	\$8,598
35	Nebraska	\$8,582
36	New York	\$8,467
37	Alaska	\$8,297
38	West Virginia	\$8,195
39	California 🔀 🧹	\$8,192
40	Oklahoma	\$8,009
41	Idaho	\$7,518
42	Georgia	\$7,457
43	North Carolina	\$7,228
44	Washington 🔀	\$7,168

### Comparison of composites of countries by states for sat test in the years 2017 and 2019



Universities	Times Higher Education   Ranking (2022)	Shanghai Jiao Tong University A Ranking (2021)	TopUniversities A	U.S. News & World Report  Ranking (2021)
California Institute of Technology - Caltech	2	9	6	7
Harvard University	2	1	5	1
Stanford University	4	2	3	3
Massachusetts Institute of Technology (MIT)	5	4	1	2
Princeton University	7	6	20	11
University of California, Berkeley	8	5	32	4
Yale University	9	11	14	11
University of Chicago	10	10	10	15
Columbia University	11	8	19	6
Johns Hopkins University	13	16	25	10



### CONCLUSION

- at least median mark for scores to achieve
- high living cost is also associate with stricter n more achiever result in that area
- also choose school that is non optional test for higher chance
- low participant school show greater marks in each test
- sat has higher participation mean than act
- cost of tuition fees, living, participation, lowest & ideal scores mark are recommended features for new student to consider when selecting which entrance test to pick for which type of college.

### REFERENCES

- Universities Ranking
  - <a href="https://www.mastersportal.com/ranking-country/82/united-states.html">https://www.mastersportal.com/ranking-country/82/united-states.html</a>
- Average Cost of Tuition Fees of College in US's state
  - <a href="https://educationdata.org/average-cost-of-college-by-state#:~:text=Massachusetts%20has%20the%20highest%20average,%2411%2C686%20per%20year%20on%20average">https://educationdata.org/average-cost-of-college-by-state#:~:text=Massachusetts%20has%20the%20highest%20average,%2411%2C686%20per%20year%20on%20average</a>.
- Annual Average Cost of Living in States of US
  - <a href="https://meric.mo.gov/data/cost-living-data-series">https://meric.mo.gov/data/cost-living-data-series</a>



# THANK YOU