

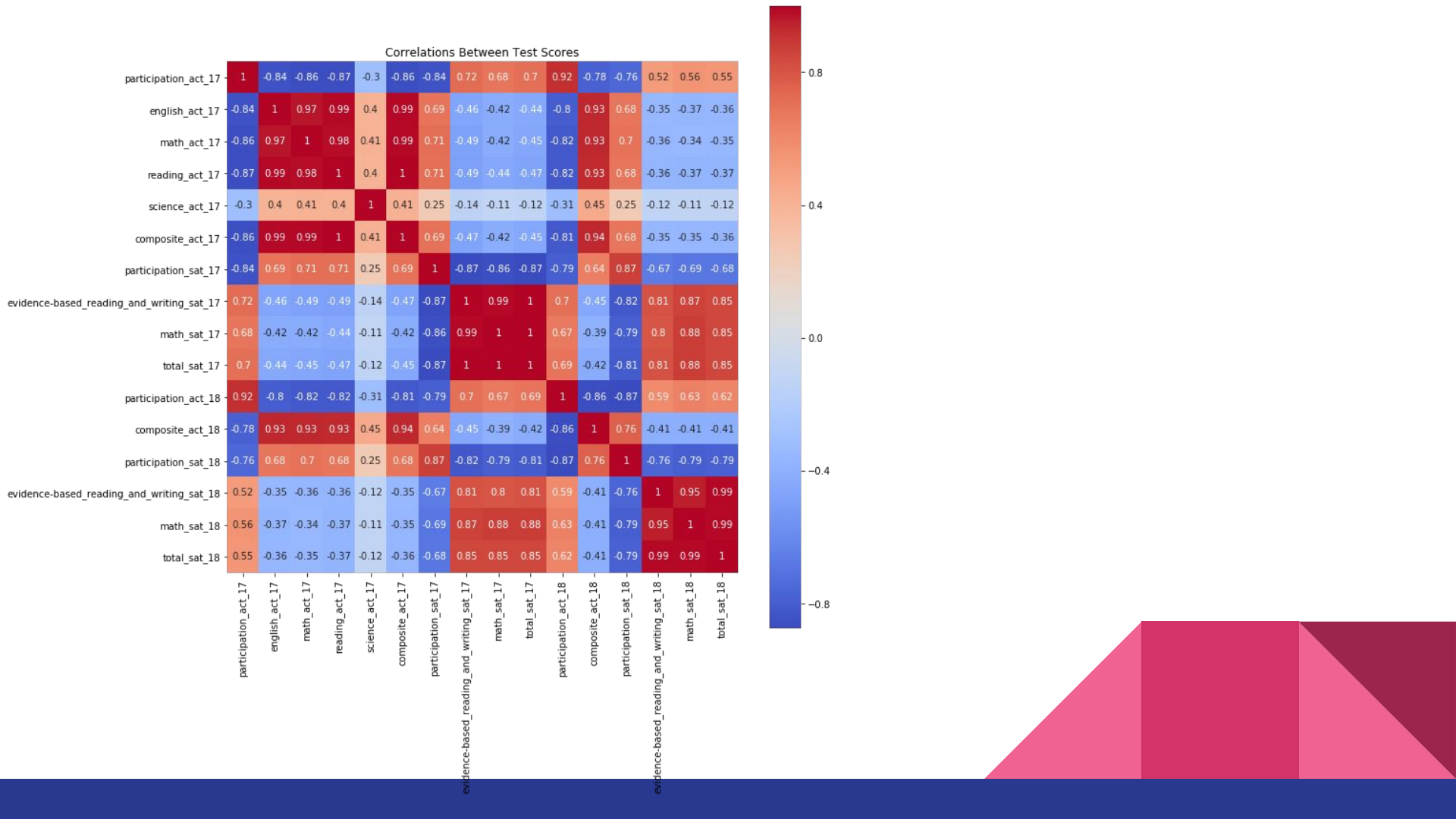


The Effect of Industry Changes On SAT and ACT Participation

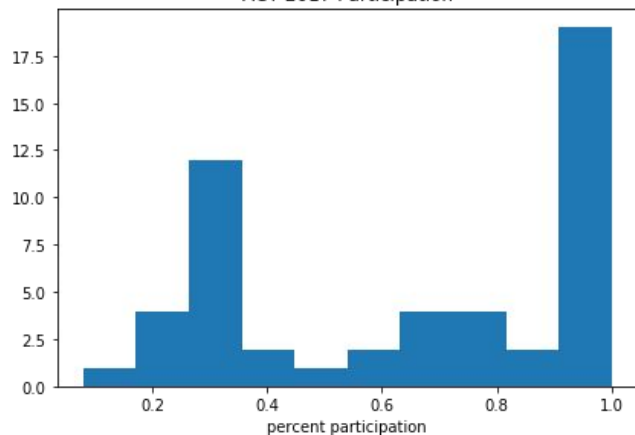
Methodology

- Data Cleaning
- Summary Statistics
- Visualization

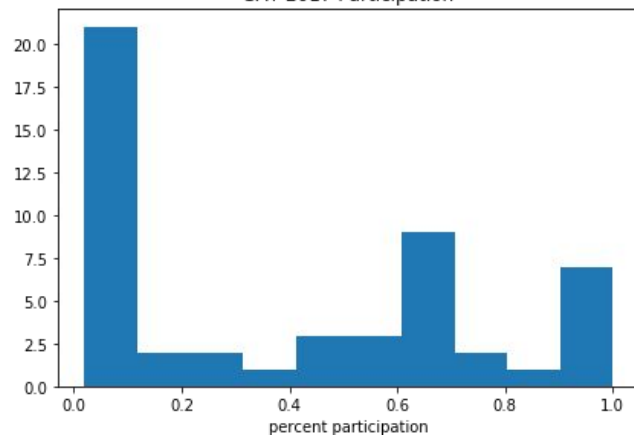




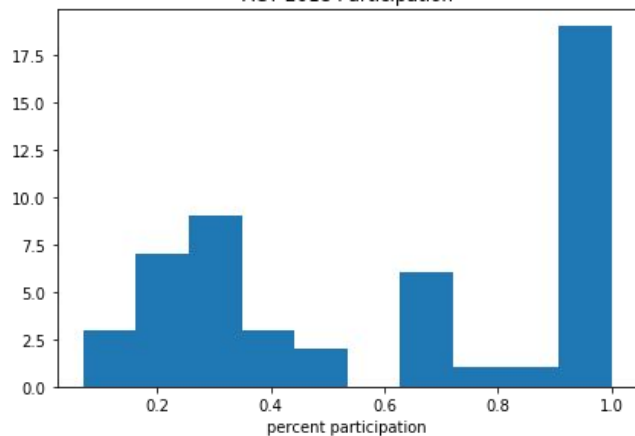
ACT 2017 Participation



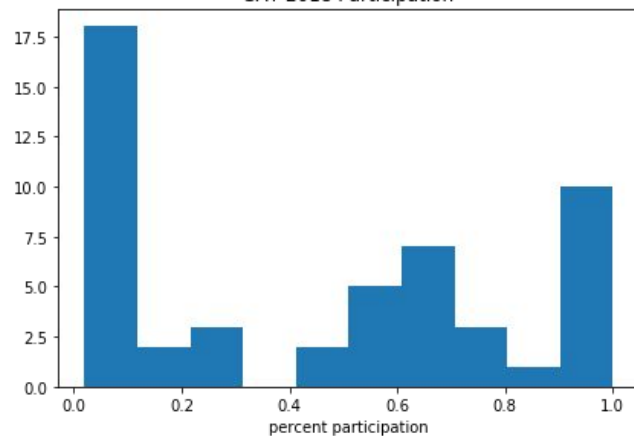
SAT 2017 Participation



ACT 2018 Participation



SAT 2018 Participation

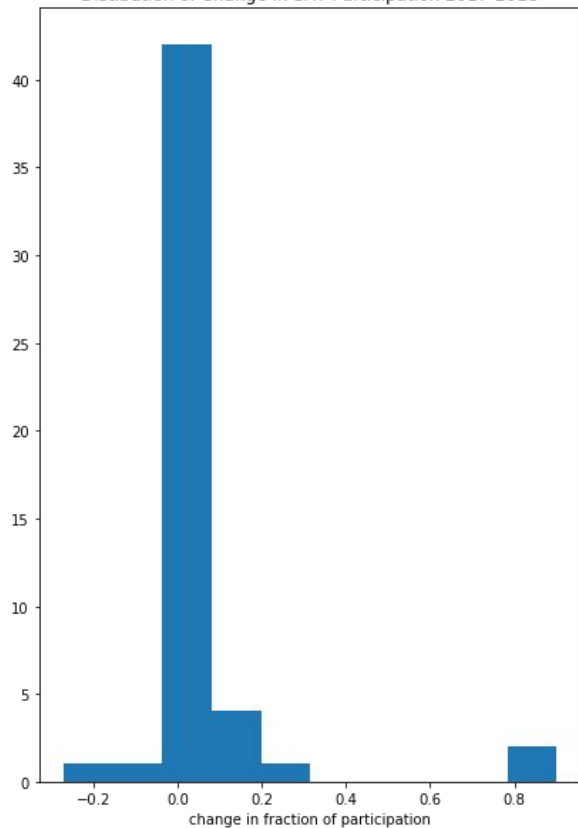


Choosing States

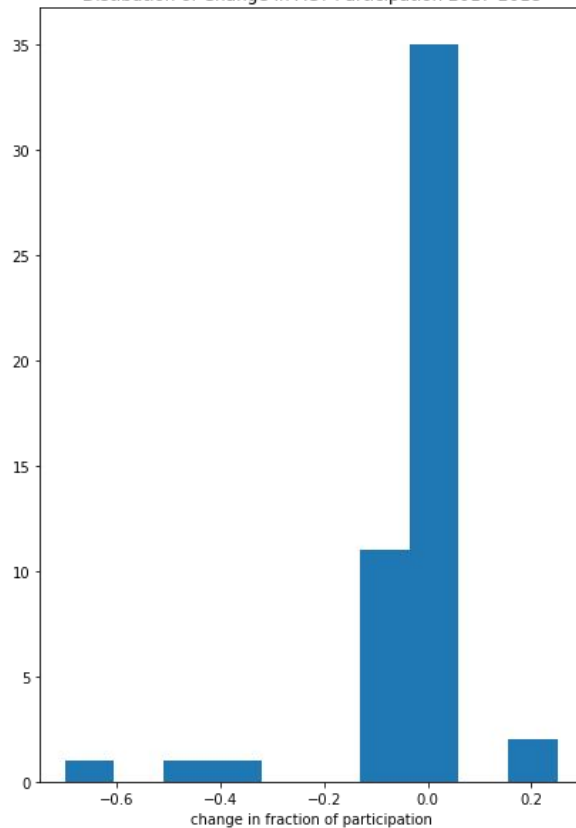
- Largest Change in Participation Rates
- Didn't require SAT or ACT for graduation



Distribution of Change in SAT Participation 2017-2018



Distribution of Change in ACT Participation 2017-2018



Economic Factors Behind Test Participation

- Hypothesis: States where the number of jobs that require college degrees are growing will see increased participation in the ACT or/and the SAT
- Tested with Data from The U.S. Bureau of Labor Statistics



Alaska

- Lost 32% participation in the ACT
- Gained 9.5 jobs out of 1000 jobs that require college degrees
- Lost 8.9 jobs out of 1000 jobs that don't require college degrees



West Virginia

- Gained 14% participation in the SAT
- Lost .7 jobs out of 1000 jobs that require college degrees
- Gained 1.7 jobs out of 1000 jobs that don't require college degrees



Nebraska

- Gained 16% participation on the ACT
- Lost .8 jobs out of 1000 jobs that require college degrees
- Gained 1.4 jobs out of 1000 jobs that don't require college degrees



Conclusions and Recommendations

- Intuition proved wrong
- Use resources on states in which jobs with degree requirements are becoming rarer



References

Nebraska Detailed Reports

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<https://reports.collegeboard.org/pdf/2018-west-virginia-sat-suite-assessments-annual-report.pdf>



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Alaska Detailed Reports

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http://www.act.org/content/dam/act/unsecured/documents/cccr2018/P_02_029999_S_S_N00_ACT-GCPR_Alaska.pdf

https://education.alaska.gov/Stats/HSGraduates/Graduation_Rate_Fact_Sheet.pdf

State Occupational Data

<https://www.bls.gov/oes>

