The excellence required for admission into prestigious schools (SAT)

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Problem statement

Students have trouble conceptualizing the effort required to get into a prestigious college/ university

Solution: Outlining personalized targets

Characteristics of a student in focus:

Intended Major

Investigating the SAT performance of students within Intended Major Cohorts

State

Investigating the State-wide SAT performance

Defining a 'prestigious' school

The more prestigious the school:

- The more applicants it receives

  - Number of applicants

- The greater aptitude to recruit impressive students

  - SAT performance of enrolled students (25th percentile and 75th percentile considered)

- The lower the acceptance rate

Prestige_Signal

| Number of applicants		Acceptance Rate		SAT scores of the 25th and 75th percentiles
————	+	————	+	————
Higher = higher ranking		Lower = higher ranking		Higher = higher ranking
1		**1**		**2**

Out of 4

Prestigious = top 20% based on prestige_signal

Narrowed the collection of colleges from 410 to 82 *"prestigious"* colleges

College	Prestige_signal
Harvard College	3.901220
Stanford University	3.892683
University of Pennsylvania	3.850000

Prestige Signal distribution across schools
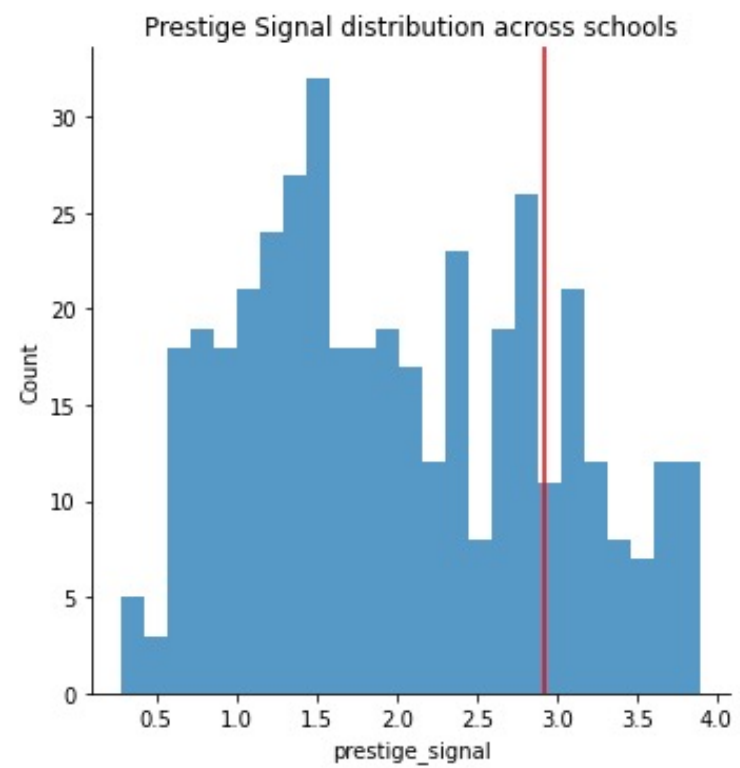
Numbers in focus

SAT performance from enrolled students in "*prestigious*" schools:

25th percentile minimum- **1180**
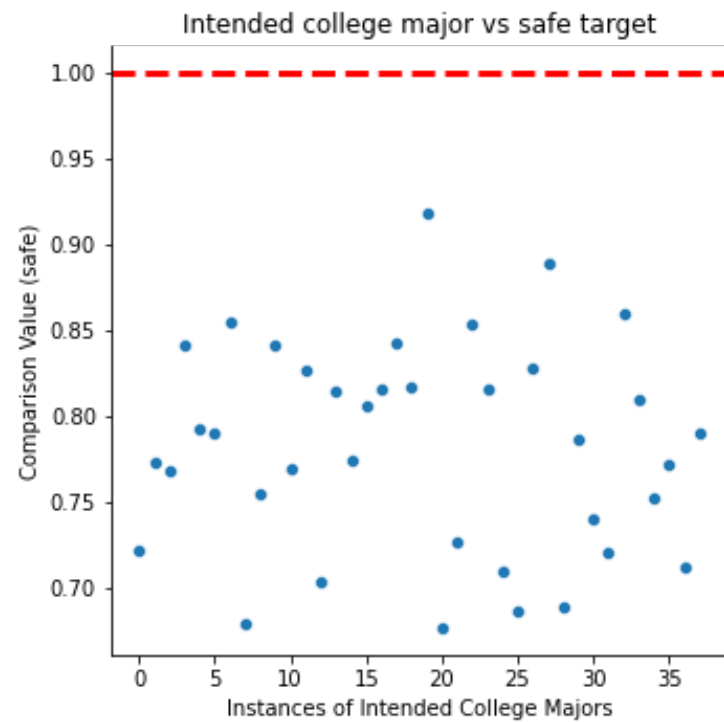
25th percentile mean- **1353**
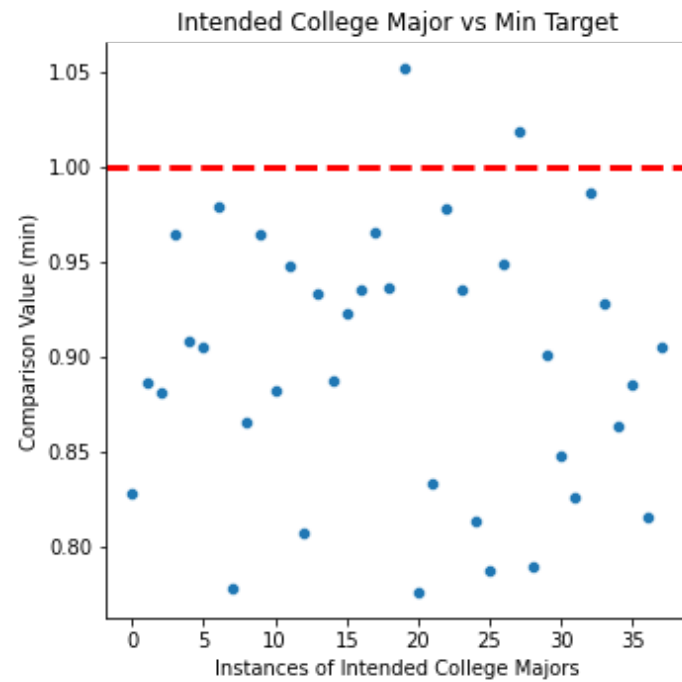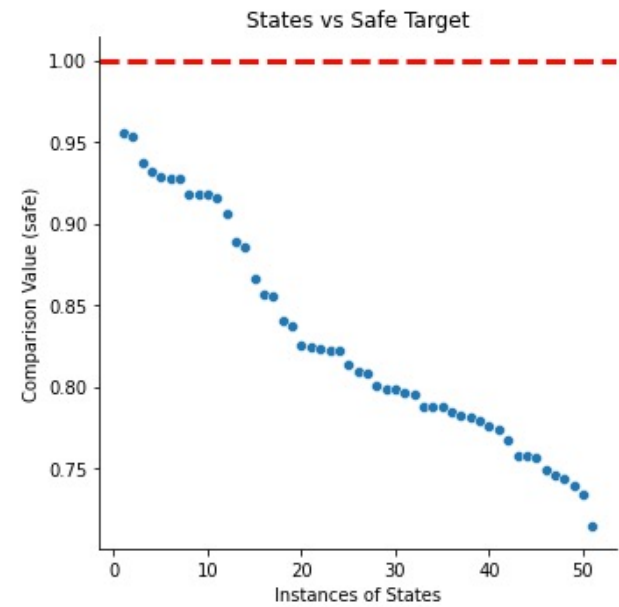
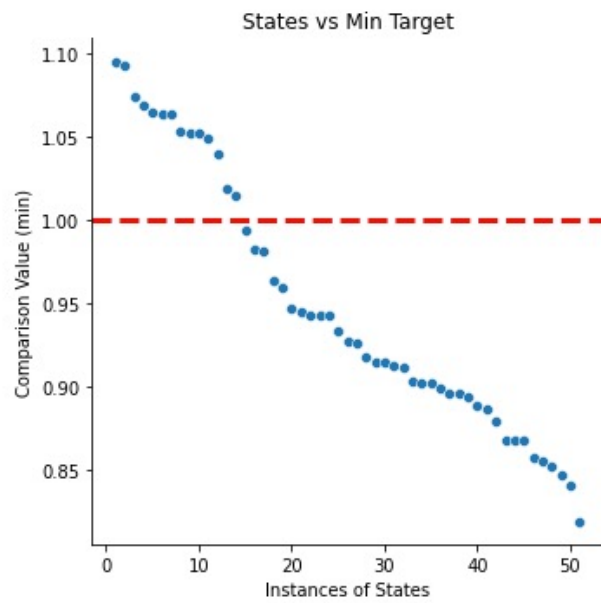# Prestige SAT Targets

1180

Minimum Target

1353

Safe Target

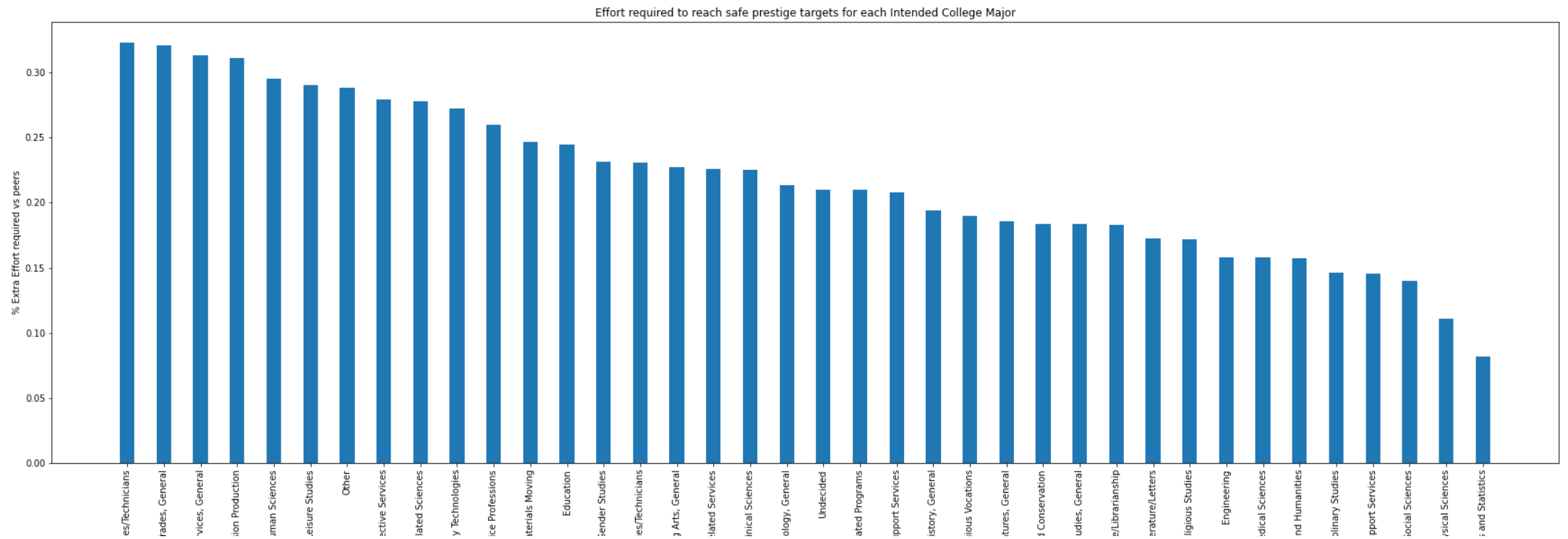# Comparison values = SAT performance / min or safe SAT target

States vs Min Target

States vs Safe Target

Participation rates have an alarming amount of negative correlation

Correlation of State SAT variables to comparison_values
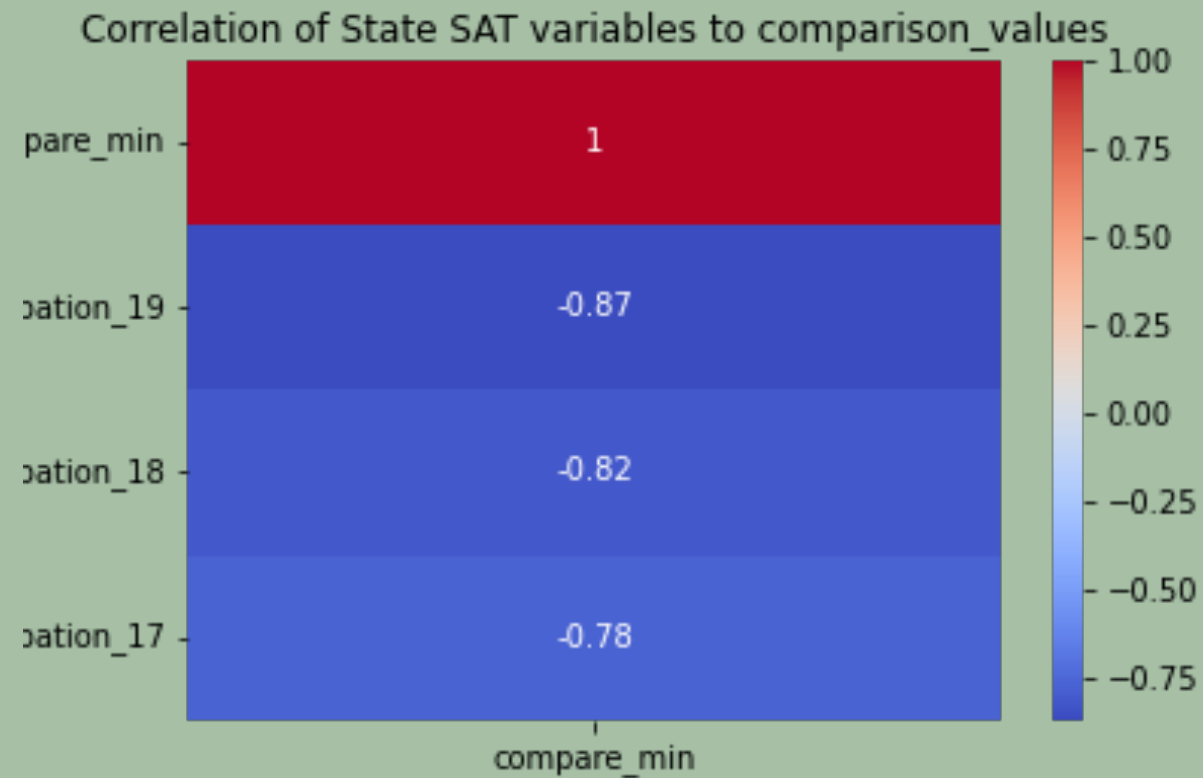
Extra effort = 1 - comparison value

Effort required to reach safe prestige targets for each Intended College Major

Extra effort required against peers amongst STATES

Effort required to reach safe prestige targets for each State
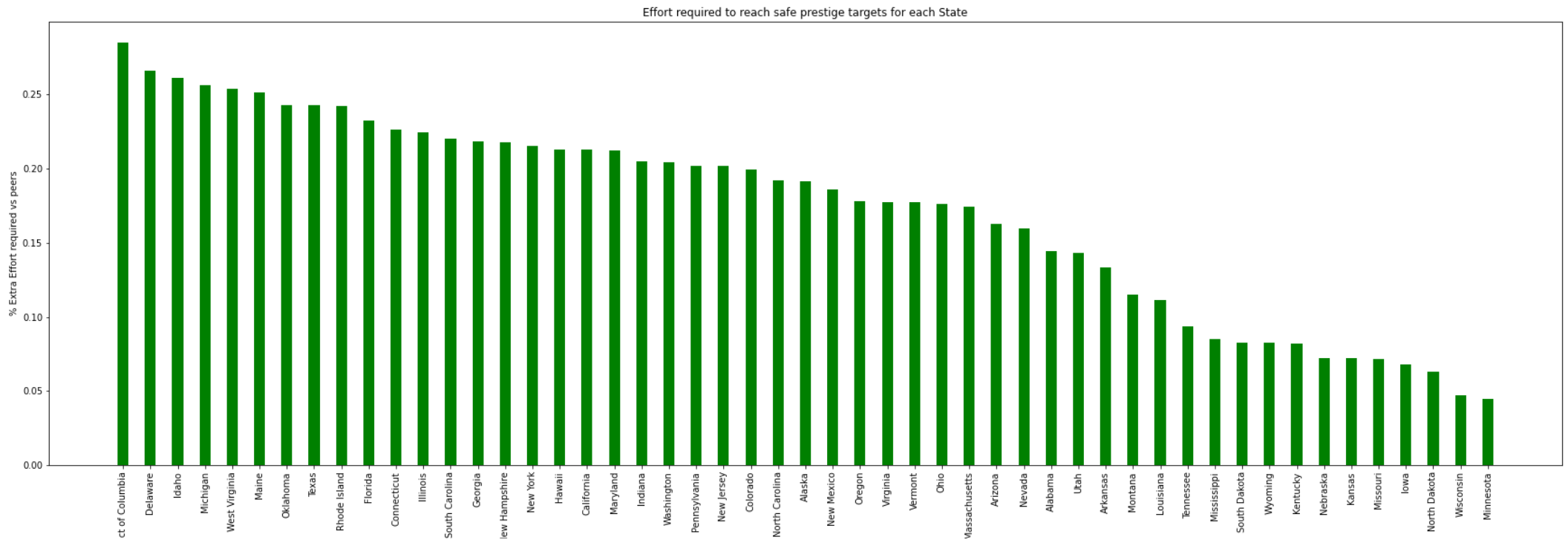
Mean Effort required

Intended Major

21.8%

(2019)

State

17.2%

(2017-2019)

Thanks For Listening