



# College Scorecard

November 2, 2019  
Team Scorecard



# Overview

- Making college decisions involves many variables
- One important variable is the monetary return after graduation
- This has the potential to determine university choice

# Dataset

- College Scorecard from the Department of Education
- Follows students post graduation for each school and tracks a number of data points

# Dataset- Data Points

- School the students attended
- Demographics
- Admission rate
- School types
- Mean and median earnings after graduation(6,8, & 10 years)

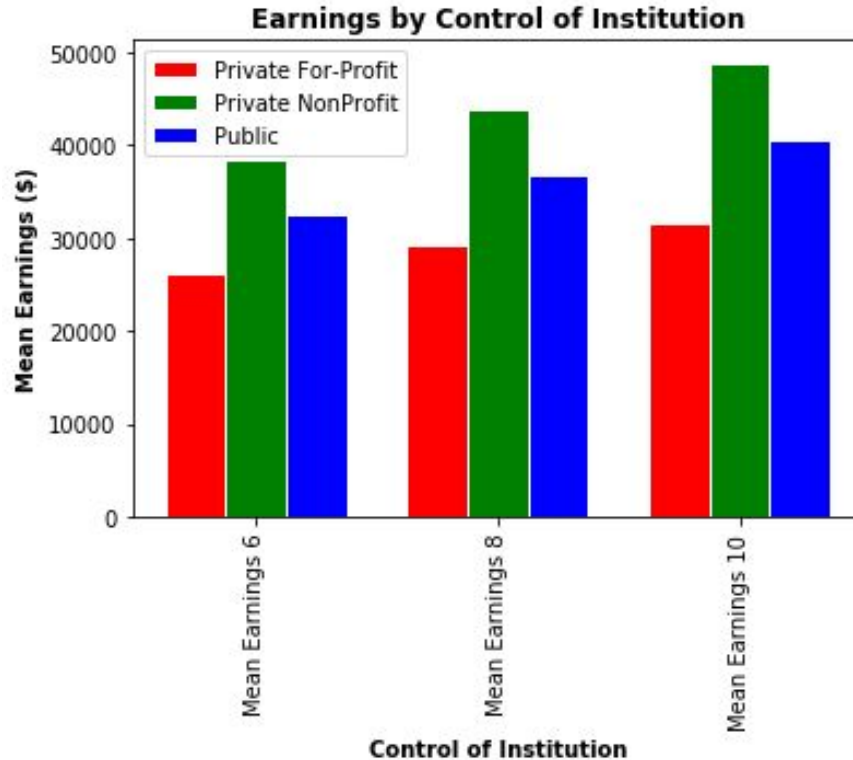
# Questions

- What type of institution has the highest earning potential?
- What schools provide the highest earnings after graduation?
- What are some of the factors that influence your earnings post graduation?
- Are the schools with the highest monetary return concentrated in one area of the United States?

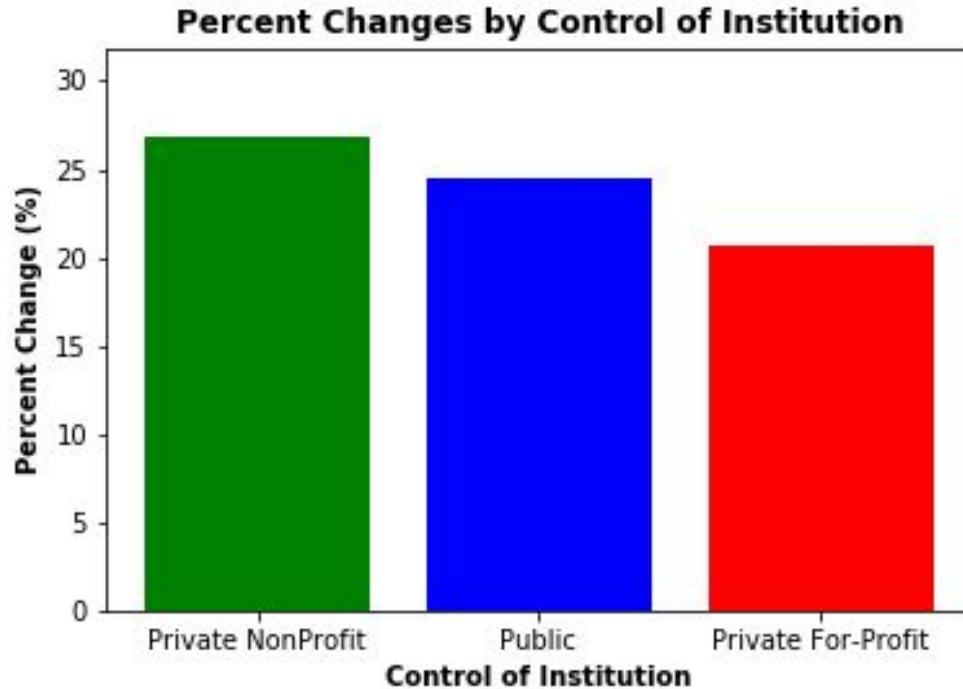
# Analysis

- Institution type
- Admission rate
- Earnings after graduation
- Influencing factors on earnings after graduation
- Concentration of top earning potential college locations

# Earnings by Control of Institution

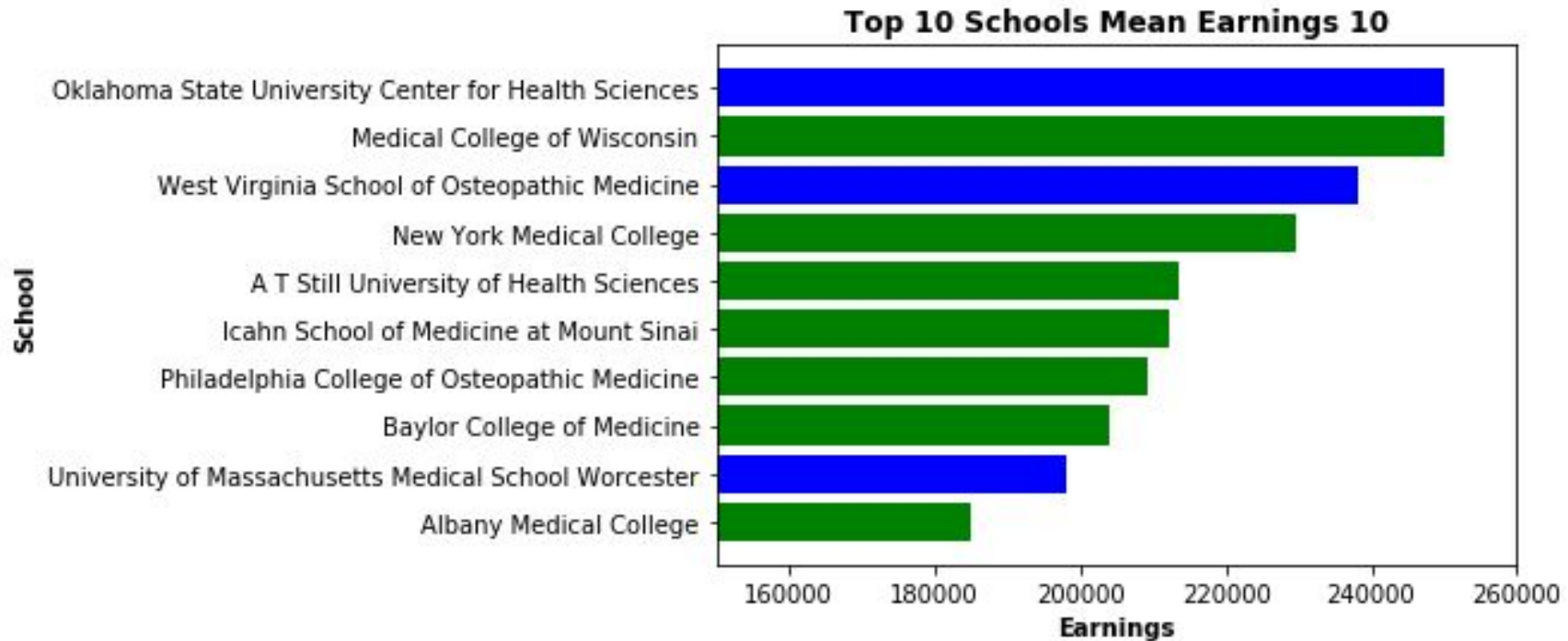


# Percent Changes by Control of Institution

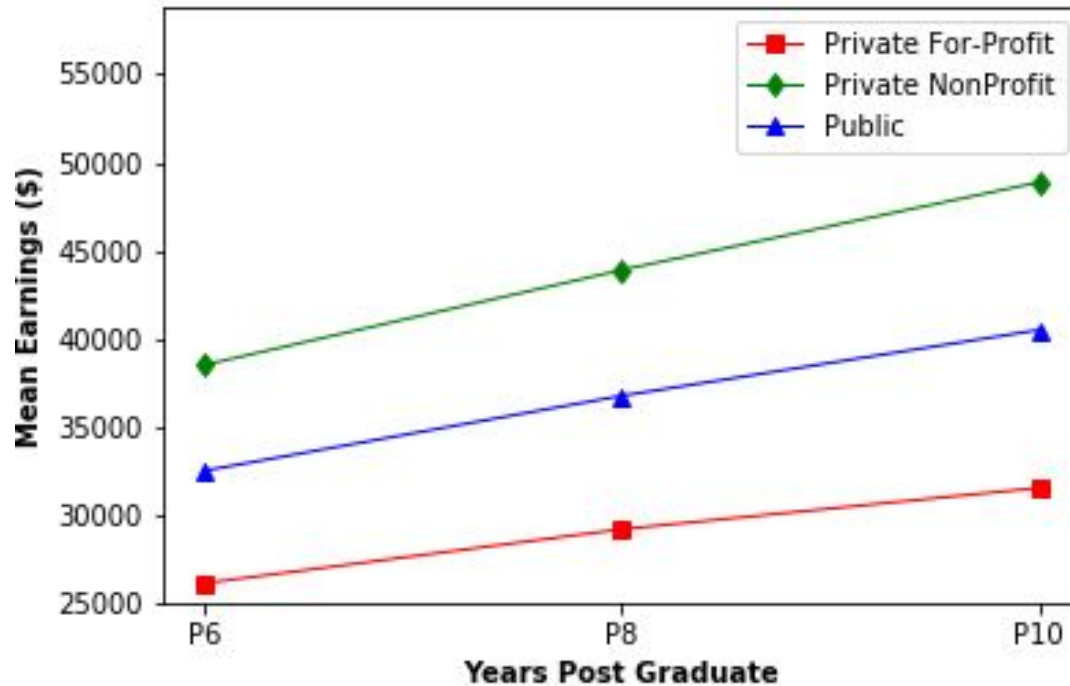




# Top 10 Schools by Mean Earnings After 10 Years

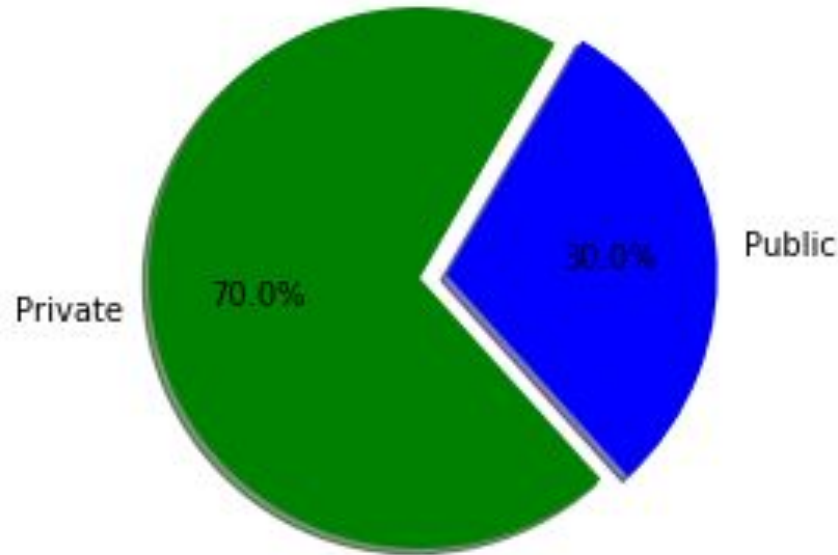


# Means Earnings by Years Post Graduation

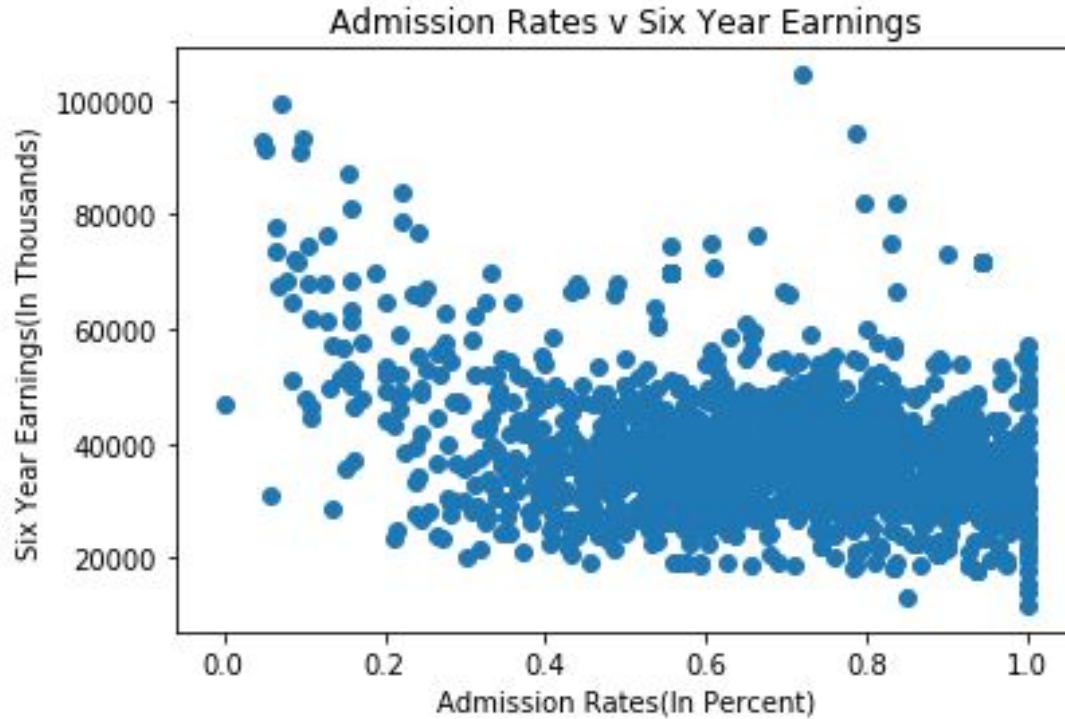


# Top 10 Schools by Ownership Type

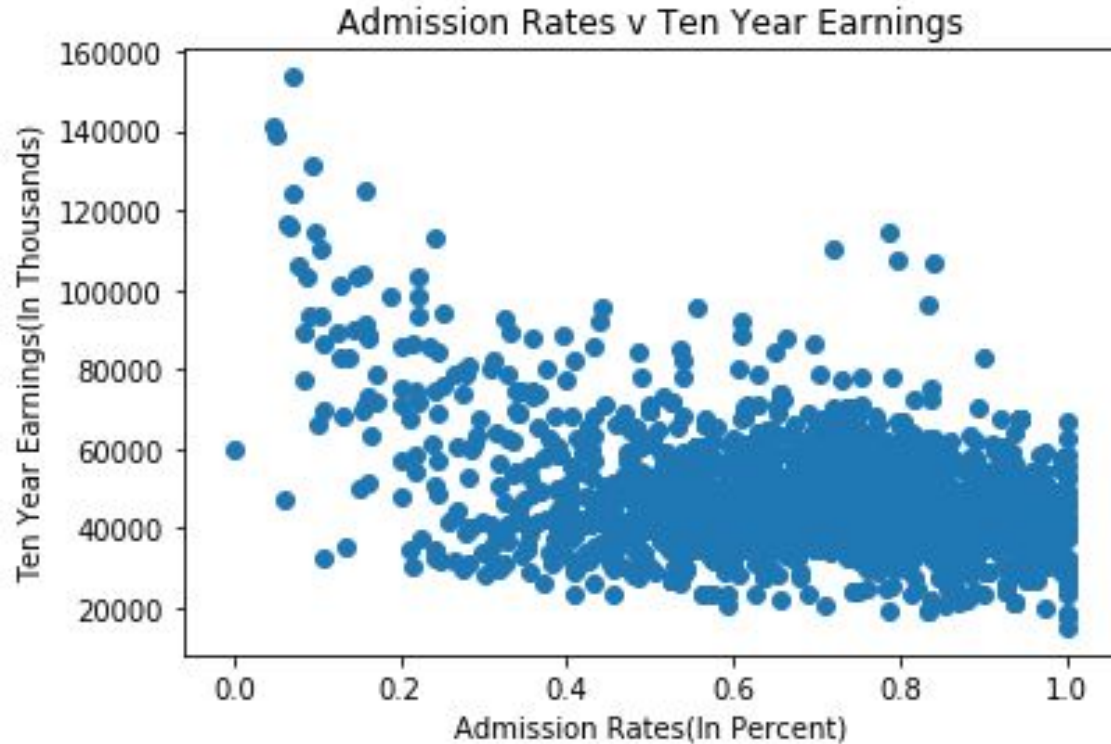
**Ownership Type Top 10 Schools (Earnings)**



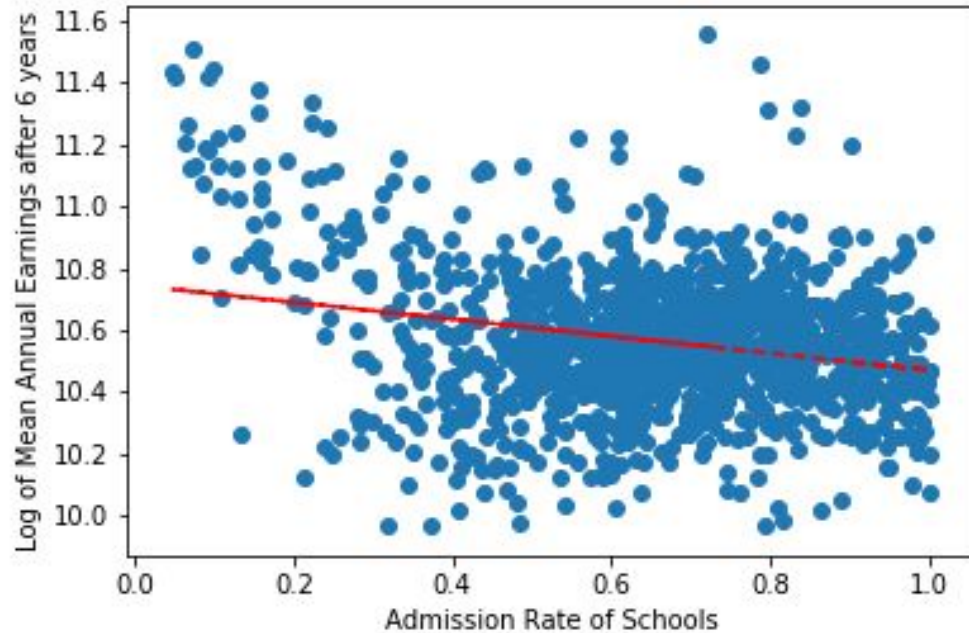
# Admission Rates vs. Six Year Earnings



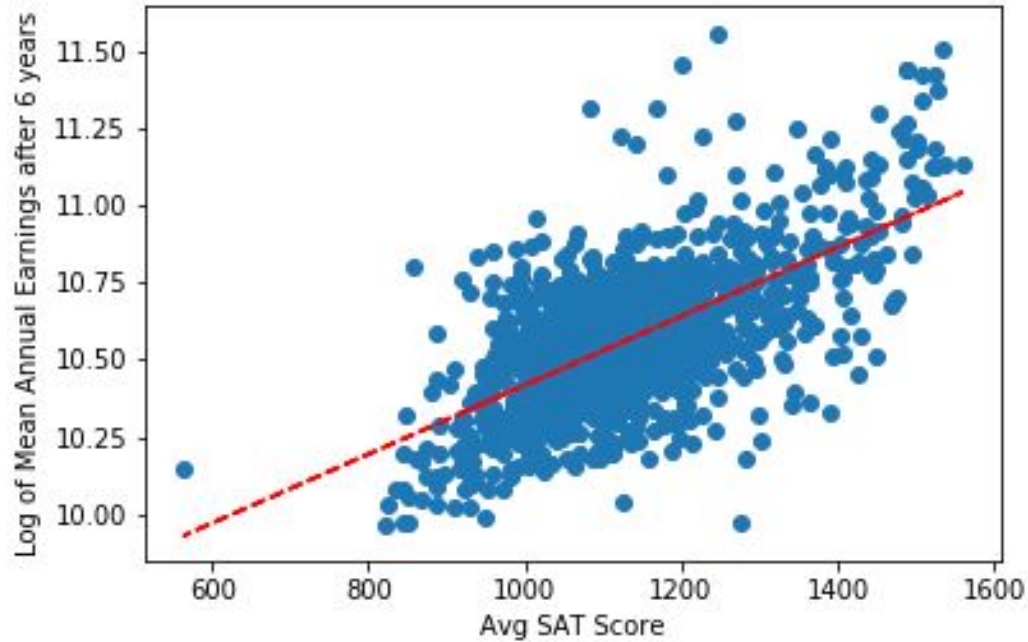
# Admission Rates vs. Ten Year Earnings



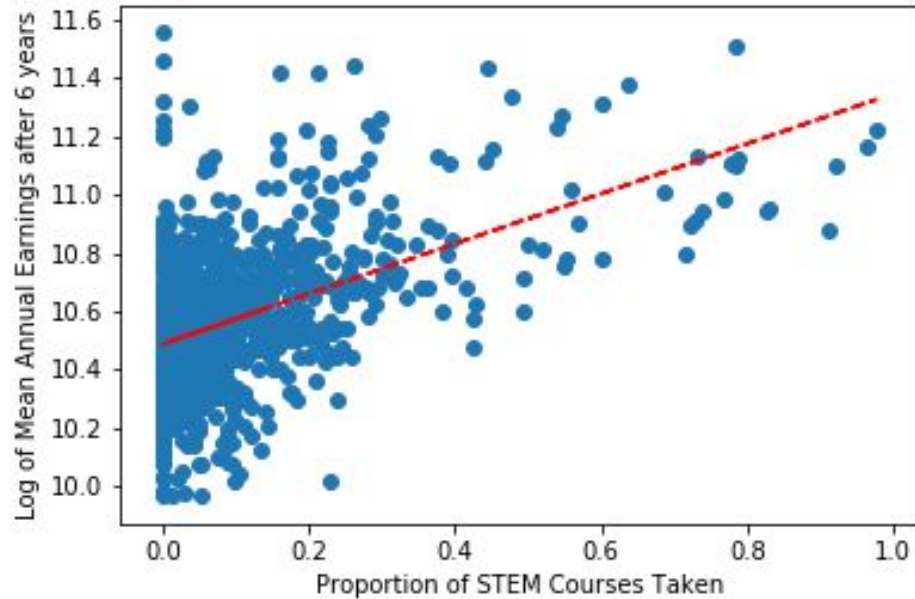
# Log of Mean Annual Earnings After Six Years vs Admission Rate



## Log of Mean Annual Earnings after 6 Years vs. Average SAT Score

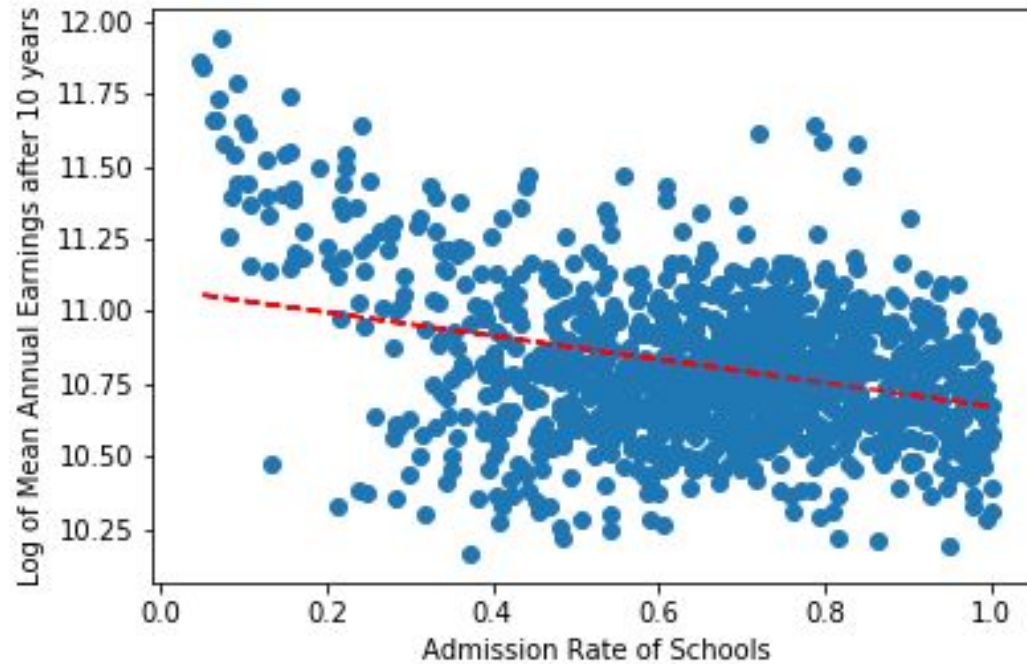


# Log of Mean Earnings After 6 years vs. Proportion of STEM courses taken

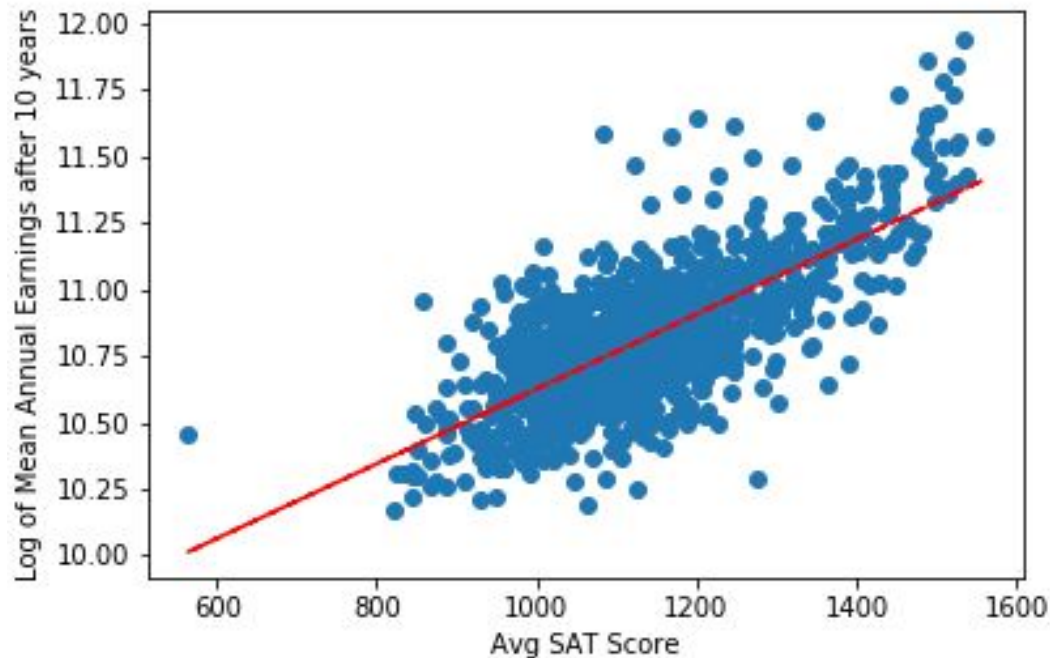




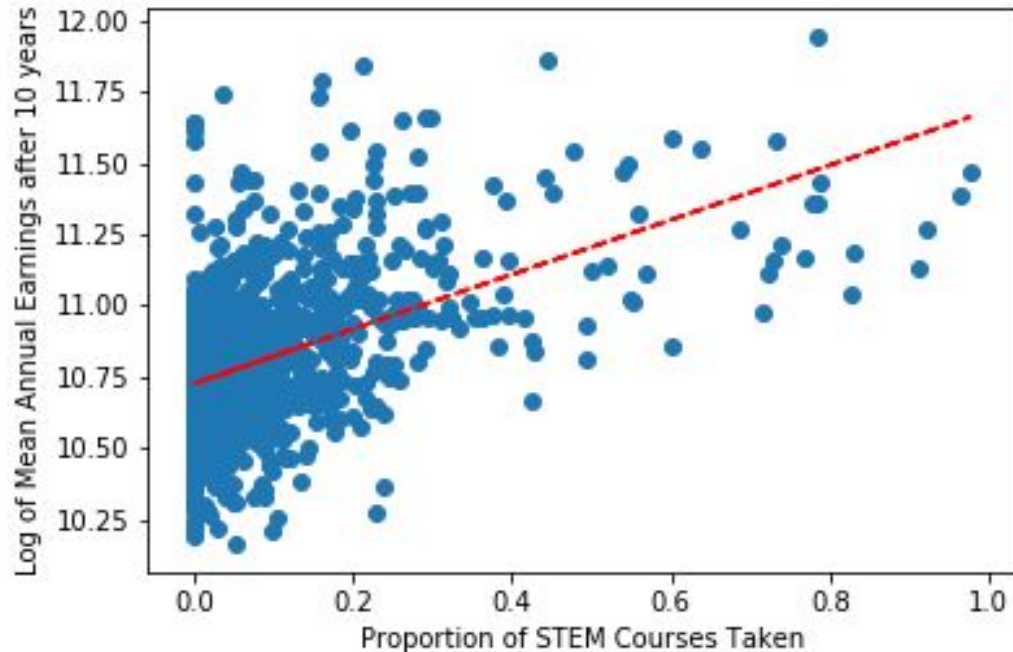
## Log of Mean Annual Earnings After Ten Years vs Admission Rate



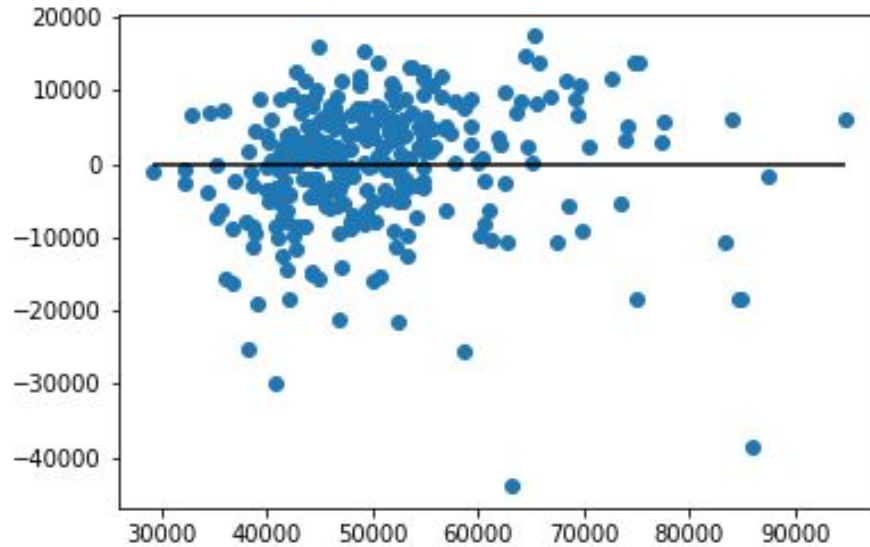
## Log of Mean Annual Earnings after 10 Years vs. Avg SAT Score



## Log of Mean Annual Earnings After 10 Years vs. Proportion of STEM Courses Taken



# Regression Output

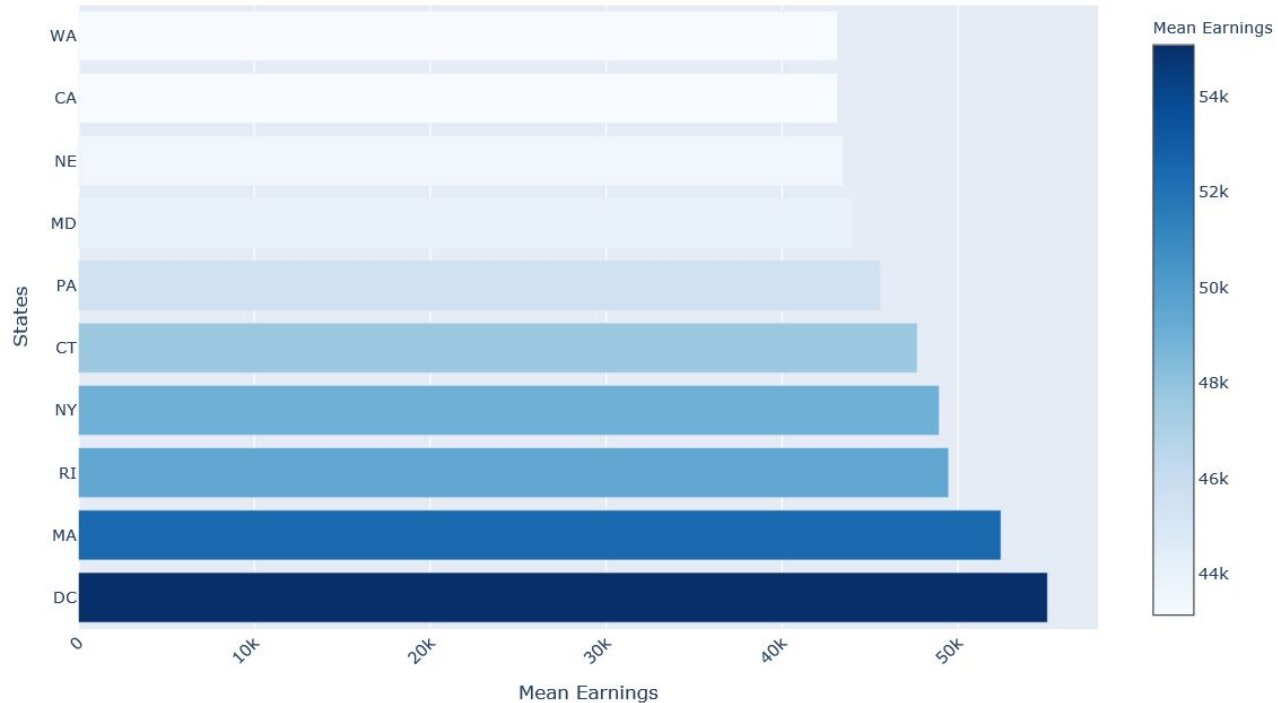


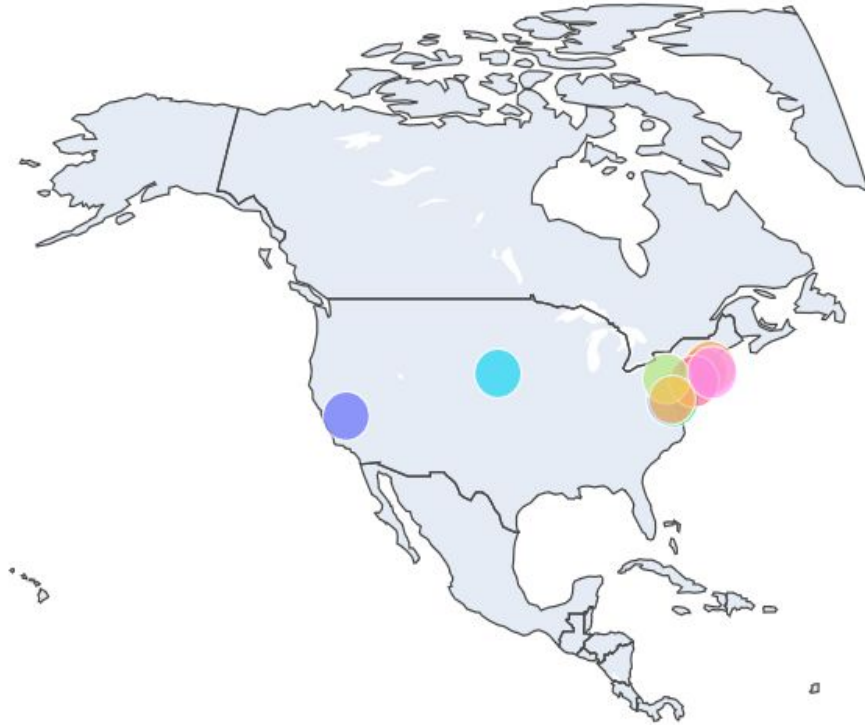
# Geographical Visualization

- Heat map of Top 50 universities with highest earnings 10 years after graduation
- Bar graph of top 10 states with highest earnings 10 years after graduation
- Map plot of top 10 states with highest earnings 10 years after graduation



# Top 10 States with Highest Mean Earnings





- State=CA
- State=CT
- State=DC
- State=MD
- State=MA
- State=NE
- State=NY
- State=PA
- State=RI
- State=WA