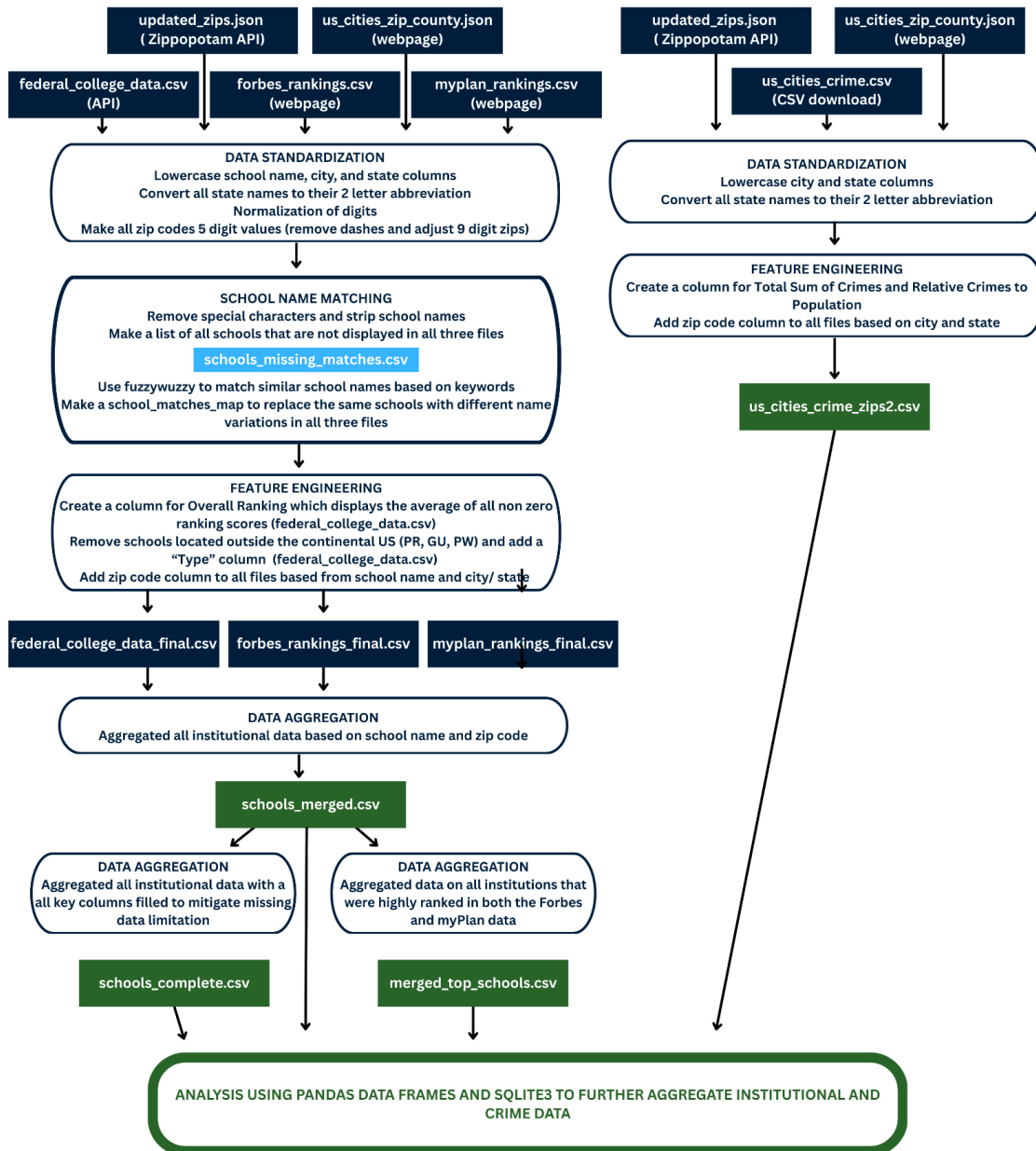


# Institutional Value in Higher Education

## A Data-Driven Analysis of Cost, Quality, and Outcomes

### Enlarged Figure Directory

## Technical Specifications of Aggregation



# Analysis and Insights

## Admissions Factors

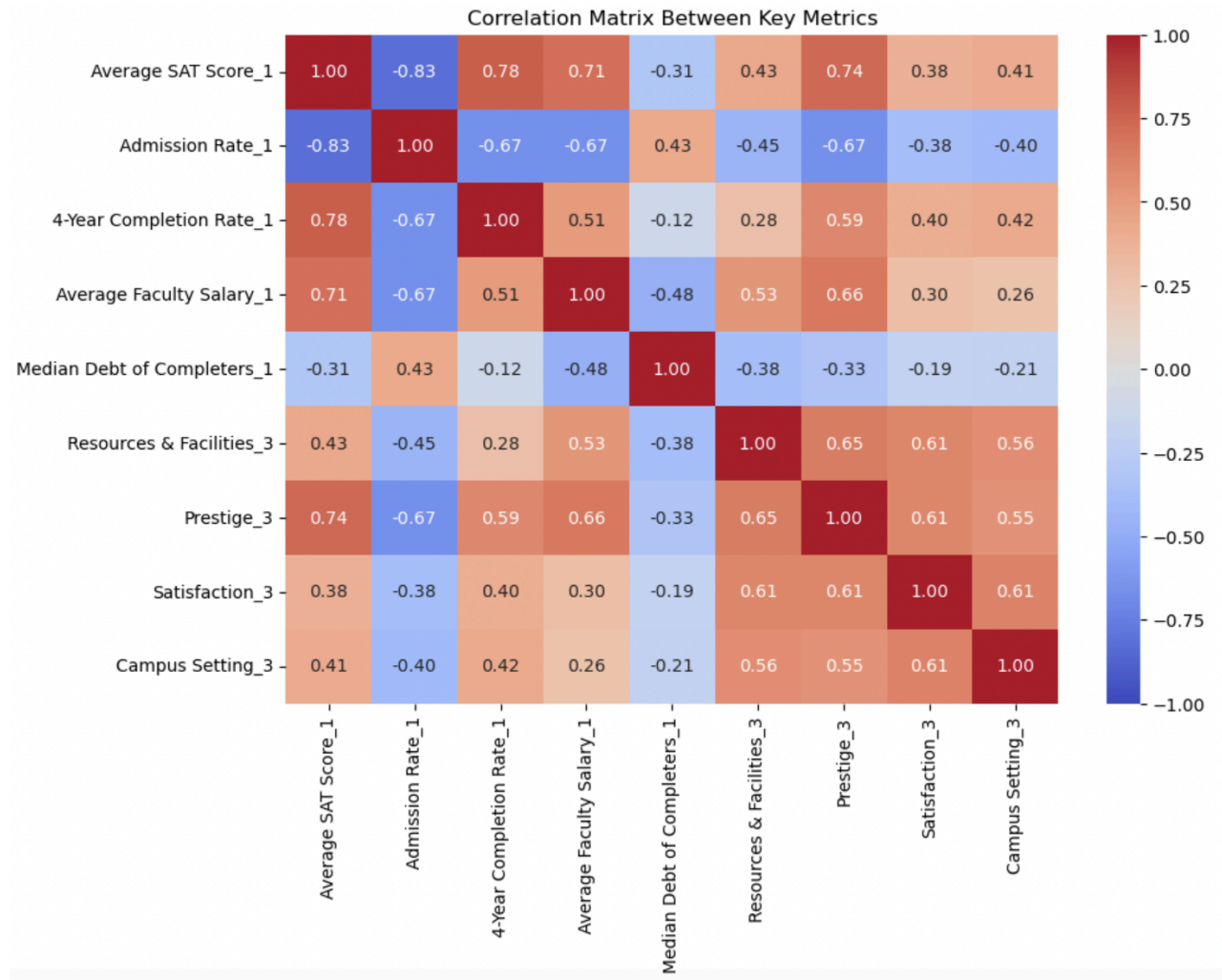


Figure 1: Correlational Analysis of Admission Rates and its contributing variables

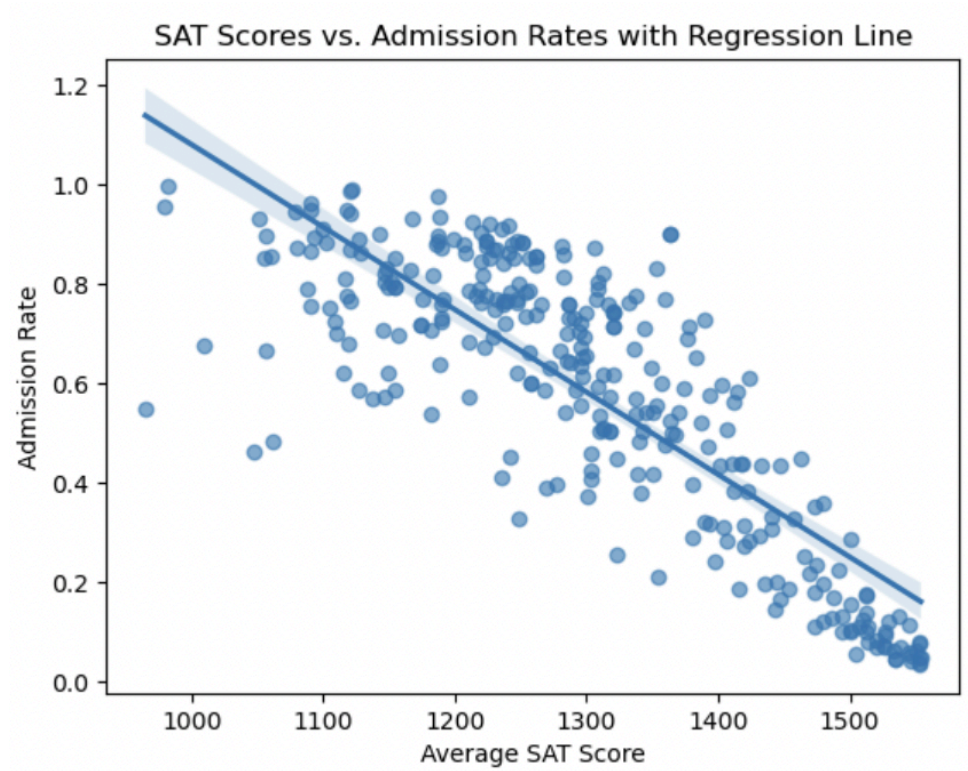


Figure 2: Cluster Map with Regression Line of Admission Rate v. Average SAT Score

## Crime and Location

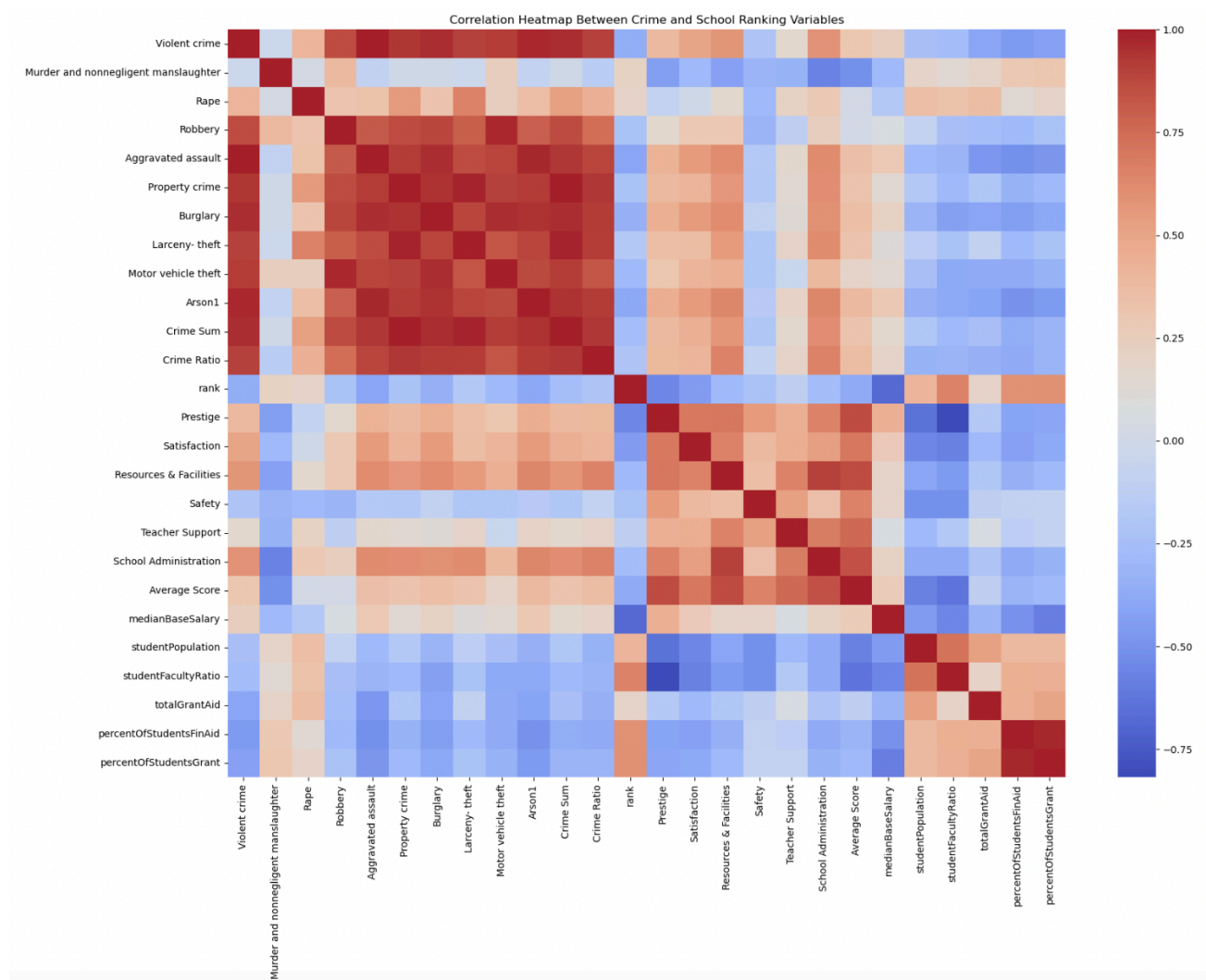


Figure 3: Correlational Analysis of Crime and its contributing variables



Figure 4: Map of the United States of America, Highlighting Low Ranked Schools

## Success Factors

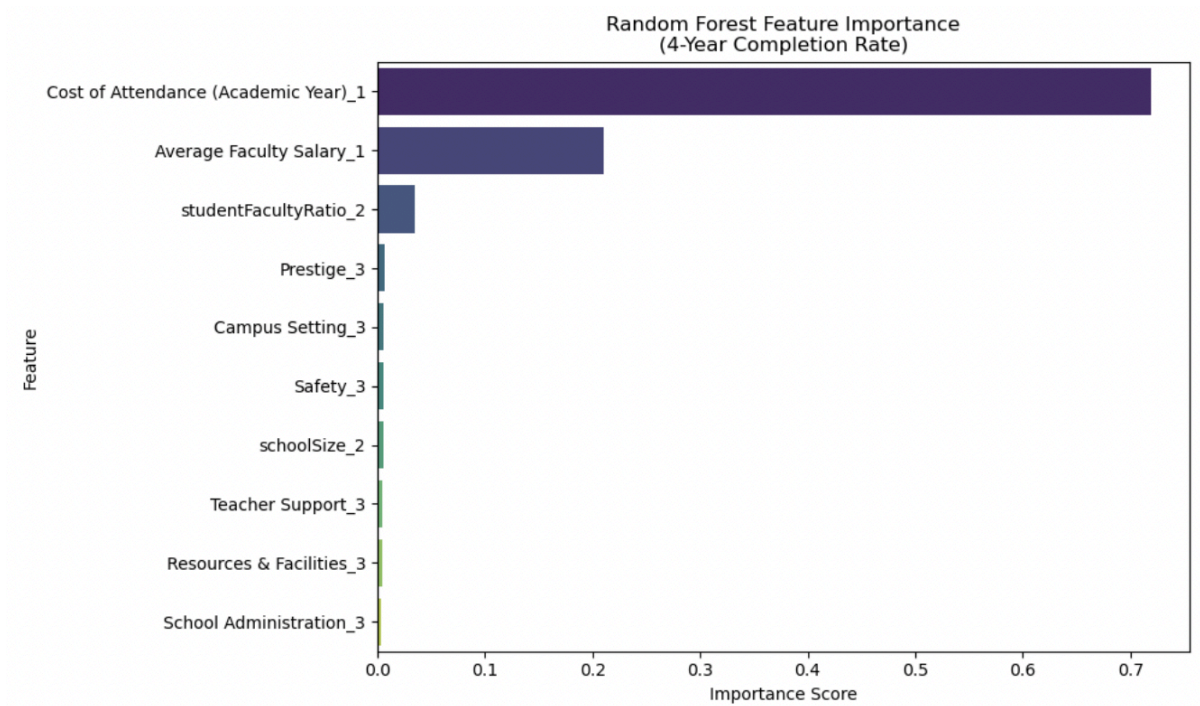


Figure 5: Random Forest Analysis To Examine Which Factors Contribute the Most To 4-Year Completion Rate



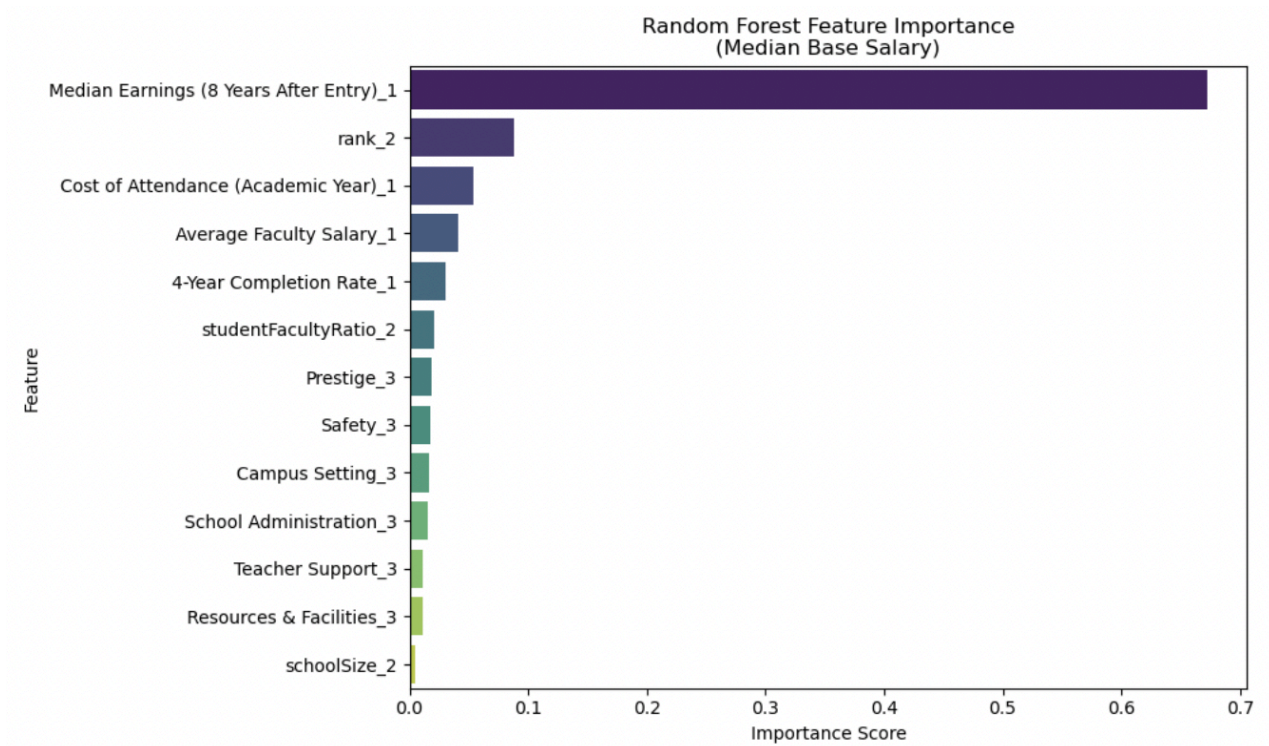


Figure 6: Random Forest Analysis To Examine Which Factors Contribute the Most To Median Base Salary

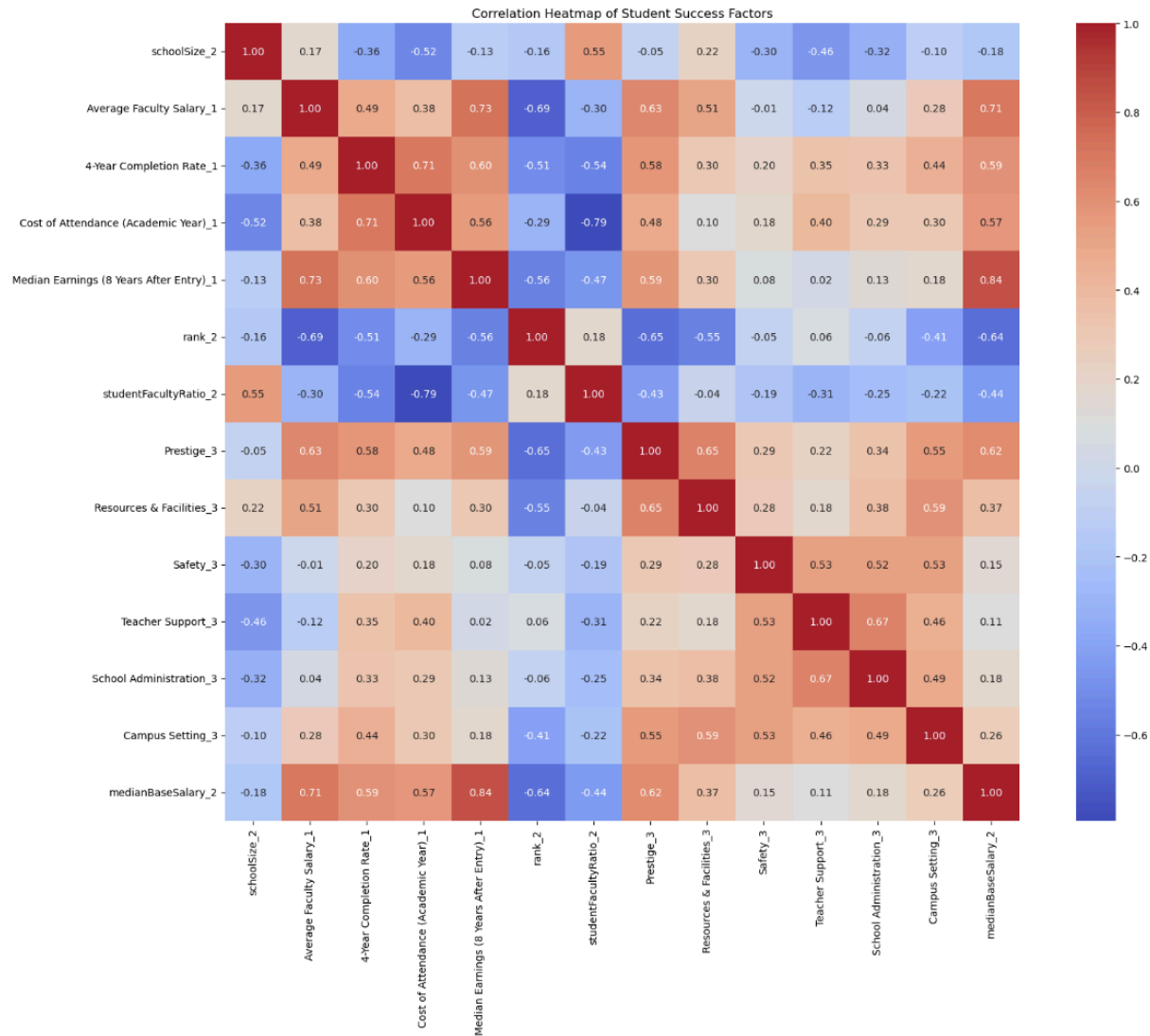


Figure 7: Correlational Analysis On Success Factors (4- Year Completion Rate, Median Base Salary, Earnings 8 Years After Entry)



## Cost

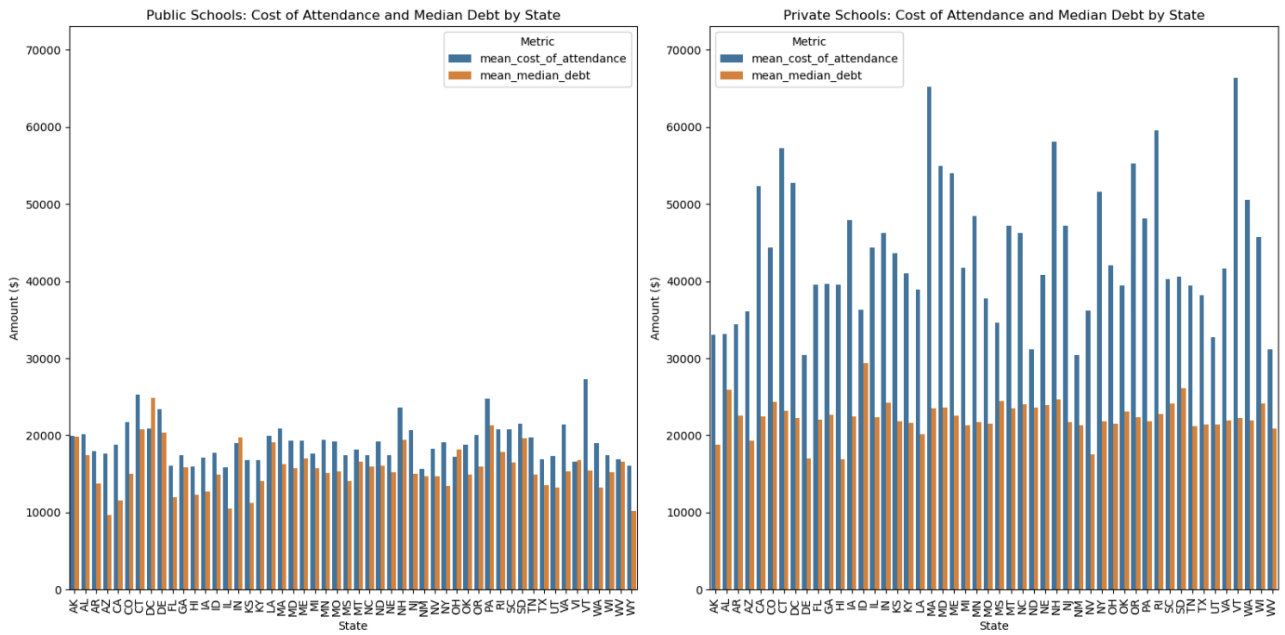


Figure 8: Analysis On Cost of Attendance and Debt of Completers by State for Private and Public Institutions

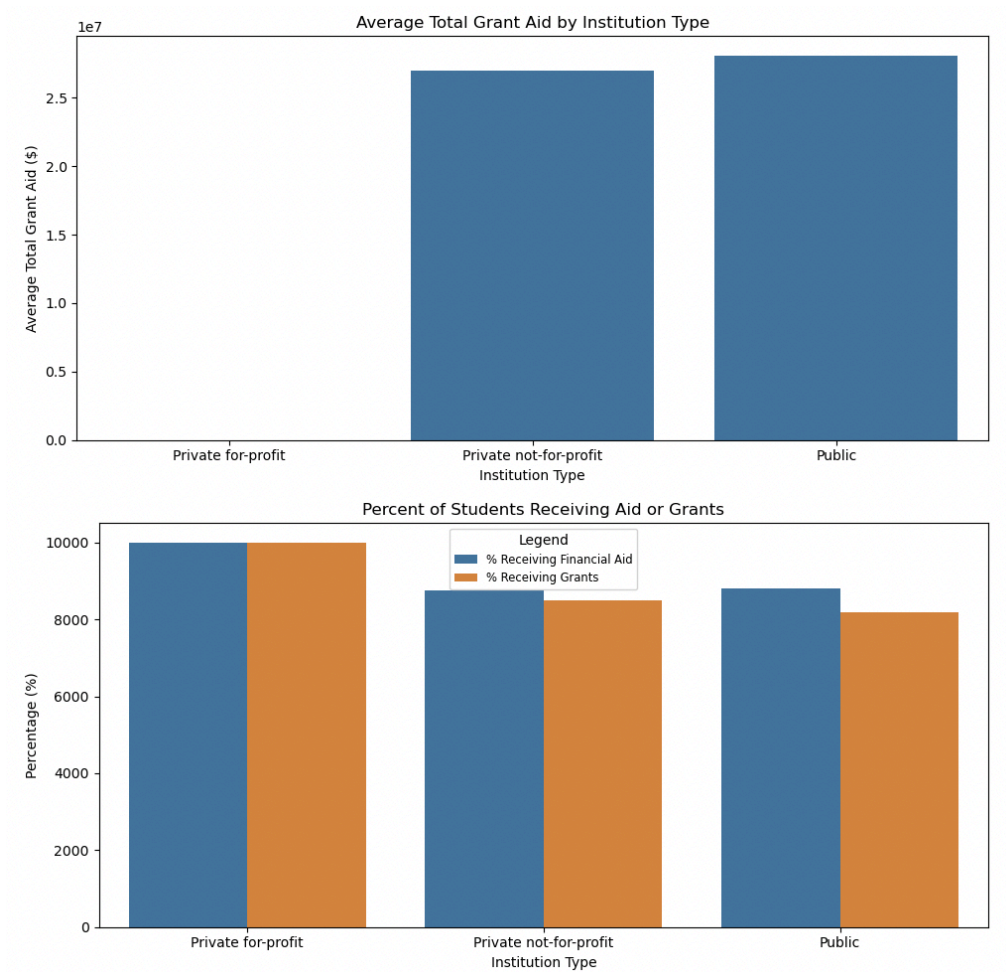


Figure 9: Grant Aid Availability, % of Students Receiving Aid, % of Students Receiving Grants by Institution Type

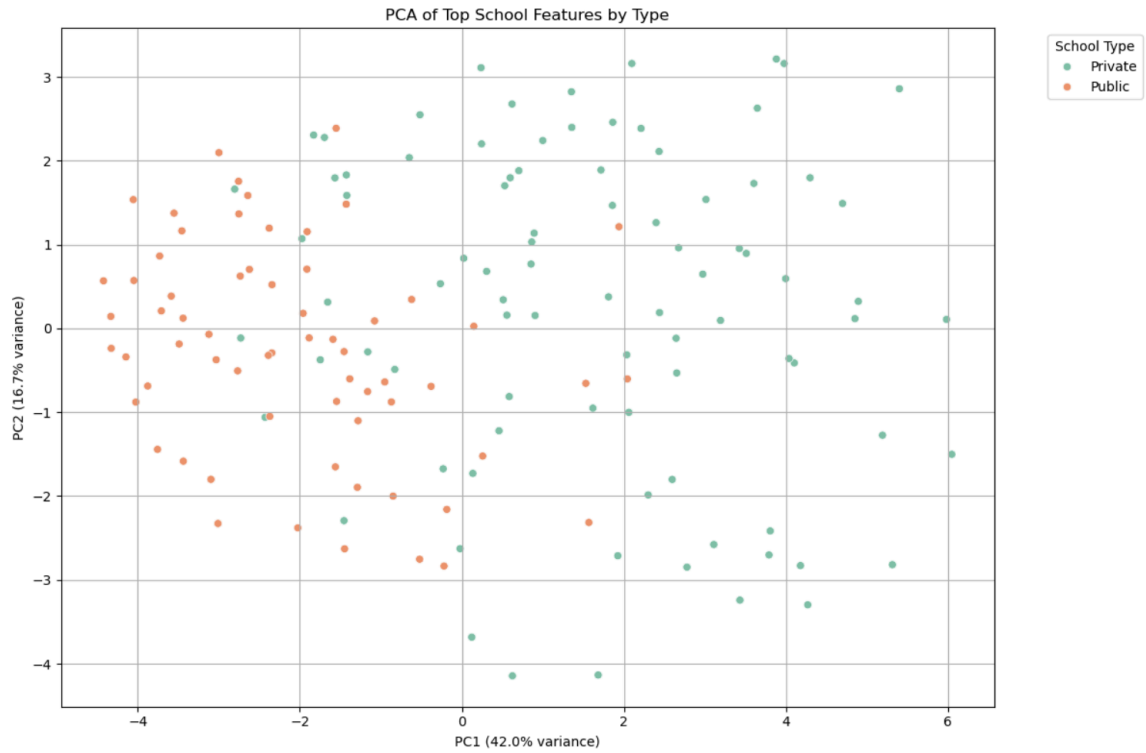


Figure 9: Analysis On Cost of Attendance and Debt of Completers by State for Private and Public Institutions

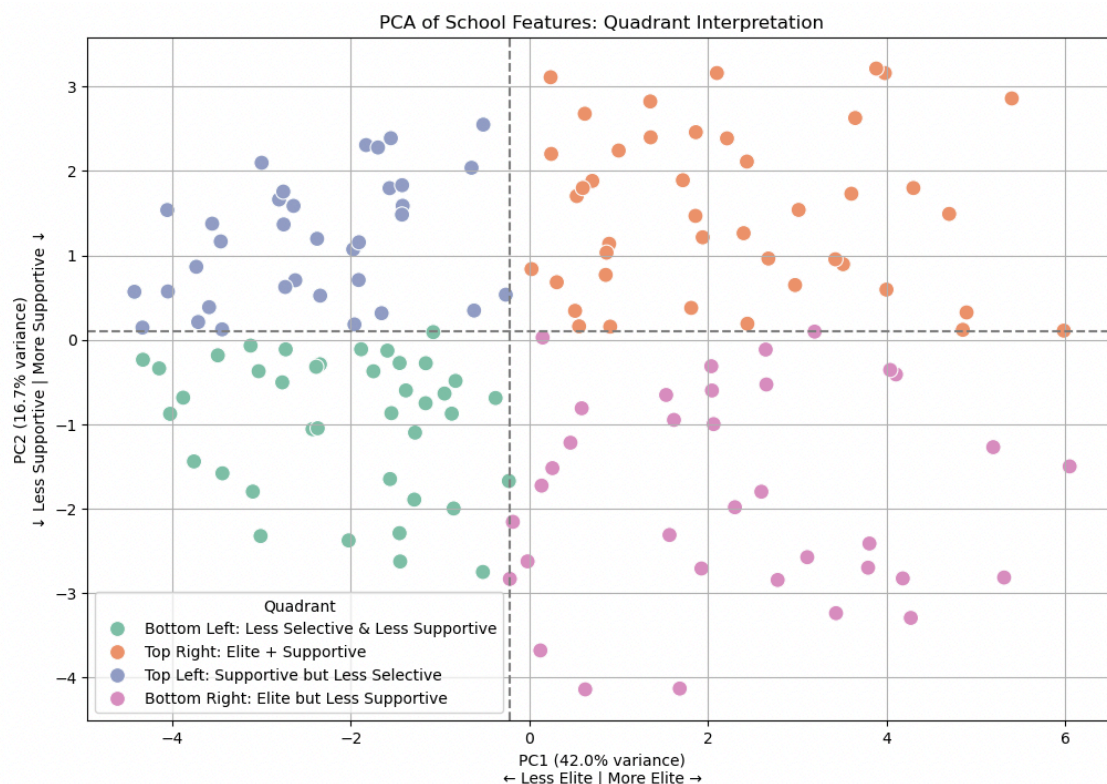


Figure 11: Principal Component Analysis (PCA) on School Eliteness and Support

### PCA Cluster Analysis Schools Pertaining To Figure 11

<p>Top Left: Supportive but Less Selective (35 schools):</p> <ul style="list-style-type: none"> <li>- appalachian state university</li> <li>- clarkson university</li> <li>- clemson university</li> <li>- college of charleston</li> <li>- college of new jersey</li> <li>- florida gulf coast university</li> <li>- furman university</li> <li>- gonzaga university</li> <li>- gustavus adolphus college</li> <li>- hope college</li> <li>- illinois state university</li> <li>- james madison university</li> <li>- kansas state university</li> <li>- kenyon college</li> <li>- lewis &amp; clark college</li> <li>- mississippi state university</li> <li>- new mexico institute of mining and technology</li> <li>- oklahoma state university</li> <li>- pacific lutheran university</li> <li>- southwestern university</li> <li>- suny college geneseo</li> <li>- texas christian university</li> <li>- texas state university</li> </ul>	<p>Top Right: Elite + Supportive (43 schools):</p> <ul style="list-style-type: none"> <li>- amherst college</li> <li>- babson college</li> <li>- bentley university</li> <li>- bowdoin college</li> <li>- brandeis university</li> <li>- brigham young university</li> <li>- bryn mawr college</li> <li>- bucknell university</li> <li>- carleton college</li> <li>- colgate university</li> <li>- college of holy cross</li> <li>- colorado college</li> <li>- dartmouth college</li> <li>- elon university</li> <li>- franklin and marshall college</li> <li>- grinnell college</li> <li>- harvey mudd college</li> <li>- lafayette college</li> <li>- macalester college</li> <li>- middlebury college</li> <li>- mount holyoke college</li> <li>- oberlin college</li> <li>- pepperdine university</li> </ul>
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<ul style="list-style-type: none"> <li>- towson university</li> <li>- truman state university</li> <li>- university of dayton</li> <li>- university of hawaii manoa</li> <li>- university of mississippi</li> <li>- university of north carolina greensboro</li> <li>- university of oklahoma norman</li> <li>- university of oregon</li> <li>- university of wisconsin eau claire</li> <li>- utah state university</li> <li>- virginia military institute</li> <li>- western washington university</li> </ul>	<ul style="list-style-type: none"> <li>- pomona college</li> <li>- princeton university</li> <li>- reed college</li> <li>- rice university</li> <li>- rose hulman institute of technology</li> <li>- santa clara university</li> <li>- smith college</li> <li>- southern methodist university</li> <li>- swarthmore college</li> <li>- trinity university</li> <li>- university of richmond</li> <li>- vanderbilt university</li> <li>- vassar college</li> <li>- villanova university</li> <li>- wake forest university</li> <li>- wellesley college</li> <li>- wesleyan university</li> <li>- whitman college</li> <li>- college of william &amp; mary</li> <li>- williams college</li> </ul>
<p>Bottom Left: Less Selective &amp; Less Supportive (43 schools):</p> <ul style="list-style-type: none"> <li>- adelphi university</li> <li>- american university</li> <li>- auburn university</li> <li>- baylor university</li> <li>- depaul university</li> <li>- florida international university</li> <li>- florida state university</li> <li>- indiana university bloomington</li> <li>- iowa state university</li> <li>- miami university</li> <li>- michigan state university</li> <li>- north carolina state university raleigh</li> <li>- ohio state university</li> <li>- pennsylvania state university main campus</li> <li>- purdue university</li> <li>- seattle university</li> <li>- syracuse university</li> <li>- texas a&amp;m university college station</li> <li>- university of alabama</li> <li>- university of arizona</li> <li>- university of arkansas</li> <li>- university of central florida</li> <li>- university of colorado boulder</li> <li>- university of delaware</li> <li>- university of georgia</li> <li>- university of illinois urbana champaign</li> <li>- university of iowa</li> <li>- university of kansas</li> <li>- university of maryland college park</li> <li>- university of miami</li> <li>- university of minnesota twin cities</li> <li>- university of missouri columbia</li> <li>- university of nebraska lincoln</li> <li>- university of north texas</li> <li>- university of south carolina</li> </ul>	<p>Bottom Right: Elite but Less Supportive (35 schools):</p> <ul style="list-style-type: none"> <li>- boston college</li> <li>- boston university</li> <li>- brown university</li> <li>- carnegie mellon university</li> <li>- claremont mckenna college</li> <li>- columbia university in city of new york</li> <li>- cornell university</li> <li>- duke university</li> <li>- emory university</li> <li>- fordham university</li> <li>- georgetown university</li> <li>- georgia institute of technology</li> <li>- harvard university</li> <li>- johns hopkins university</li> <li>- lehigh university</li> <li>- massachusetts institute of technology</li> <li>- new york university</li> <li>- northeastern university</li> <li>- northwestern university</li> <li>- rensselaer polytechnic institute</li> <li>- stanford university</li> <li>- tufts university</li> <li>- tulane university</li> <li>- university of chicago</li> <li>- university of florida</li> <li>- university of michigan ann arbor</li> <li>- university of north carolina chapel hill</li> <li>- university of notre dame</li> <li>- university of pennsylvania</li> <li>- university of southern california</li> <li>- university of texas austin</li> <li>- university of virginia</li> <li>- virginia polytechnic institute and state university</li> <li>- washington university in st louis</li> <li>- yale university</li> </ul>

<ul style="list-style-type: none"><li>- university of texas arlington</li><li>- university of utah</li><li>- university of wisconsin madison</li><li>- west virginia university</li></ul>	
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