

[DS 5610-20F] Final Project

Opportunity in Cities and Suburbs in USA



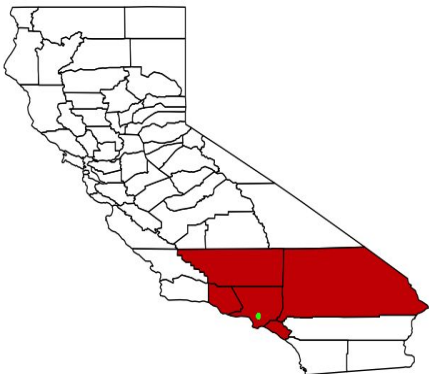
[Team 5] Soyeon Park, Ty Painter, Jay Kim, Tonnar Castellano

Data : U.S. Census in 2015

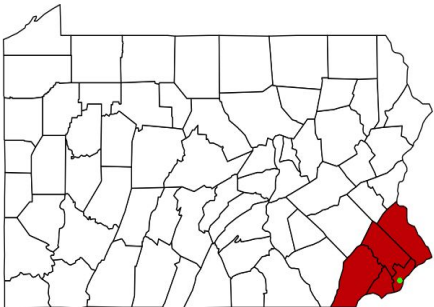
Map of the United States of America
California - New York - Pennsylvania - Texas



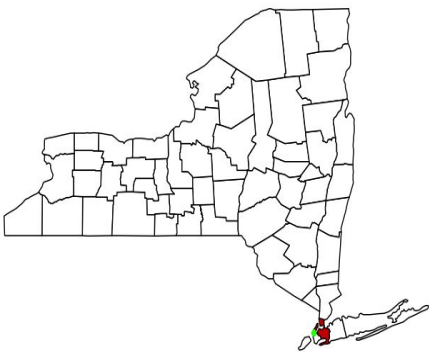
Los Angeles and Suburbs
California



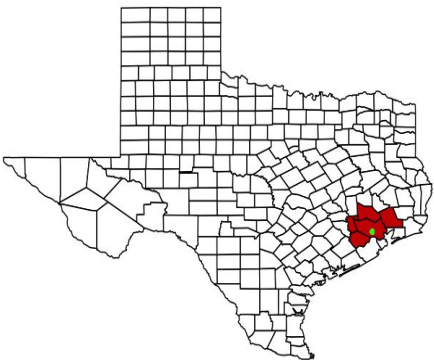
Philadelphia and Suburbs
Pennsylvania



New York City and Boroughs
New York



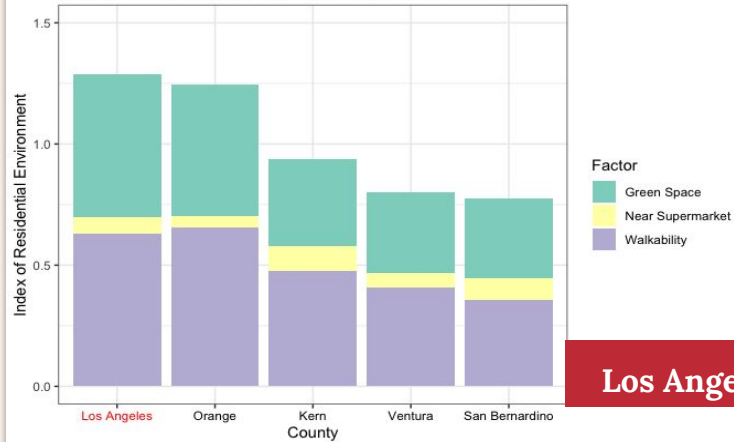
Houston and Suburbs
Texas



2.Livability

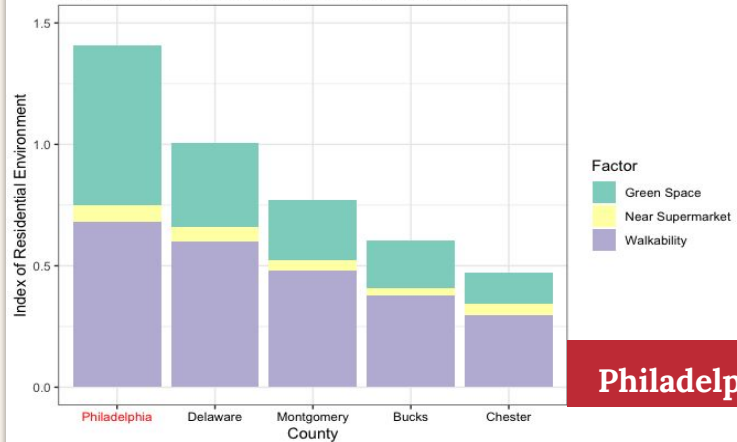
City vs Suburbs: Living Quality

Los Angeles Index of Residential Environment
Livability = Green Space Access + Near Supermarket + Walkability



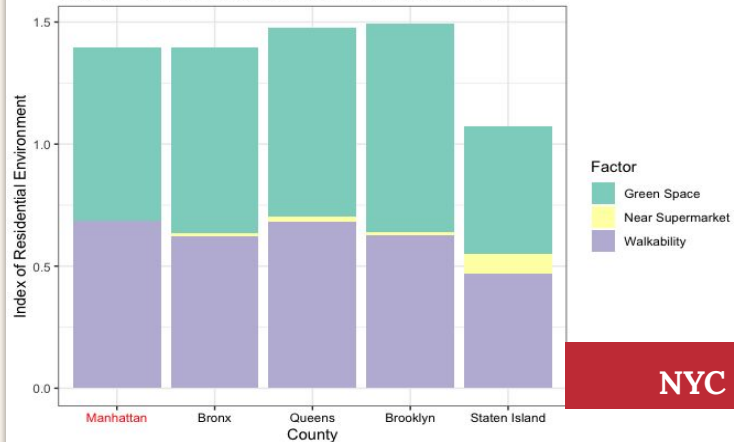
Los Angeles

Philadelphia Index of Residential Environment
Livability = Green Space Access + Near Supermarket + Walkability



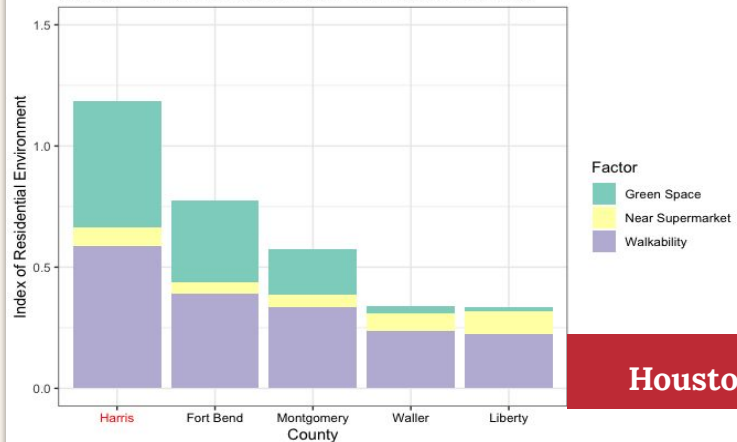
Philadelphia

NYC Index of Residential Environment
Livability = Green Space Access + Near Supermarket + Walkability



NYC

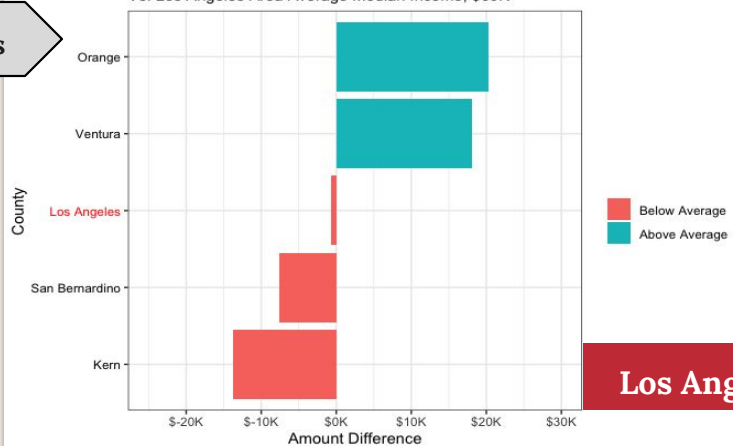
Houston Index of Residential Environment
Livability = Green Space Access + Near Supermarket + Walkability



Houston

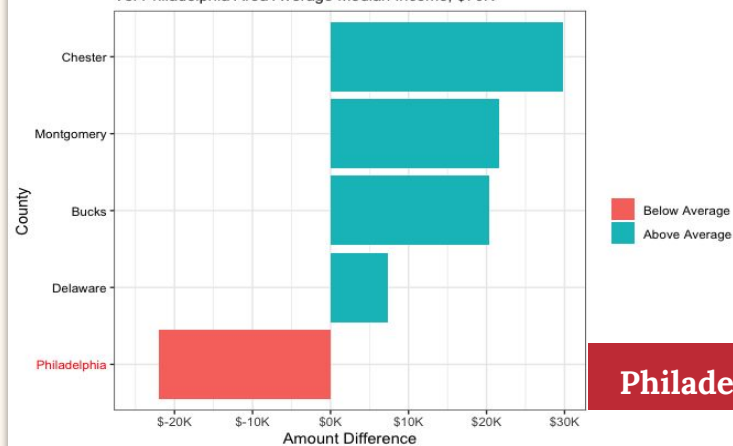
City vs Suburbs: Household Income

Household Income in Los Angeles
Vs. Los Angeles Area Average Median Income, \$69K



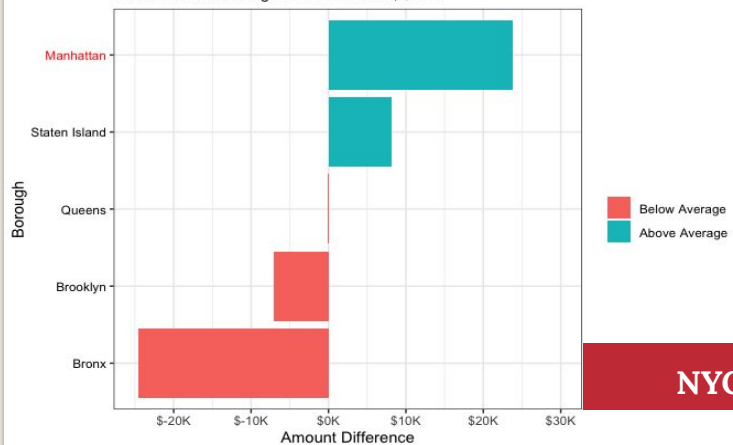
Los Angeles

Household Income in Philadelphia
Vs. Philadelphia Area Average Median Income, \$70K



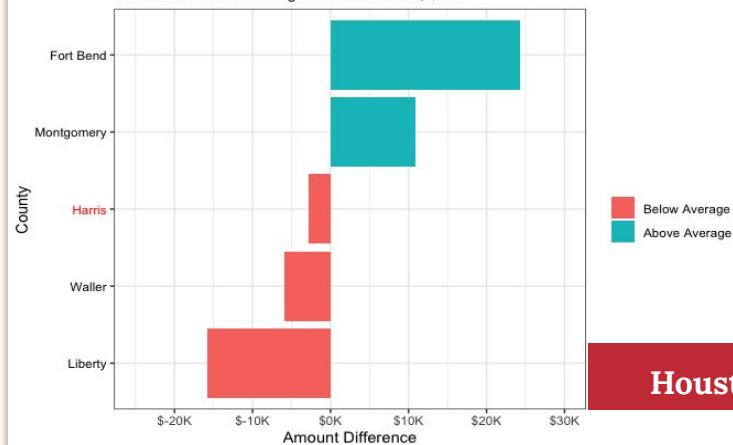
Philadelphia

Household Income in Manhattan
Vs. NYC Area Average Median Income, \$64K



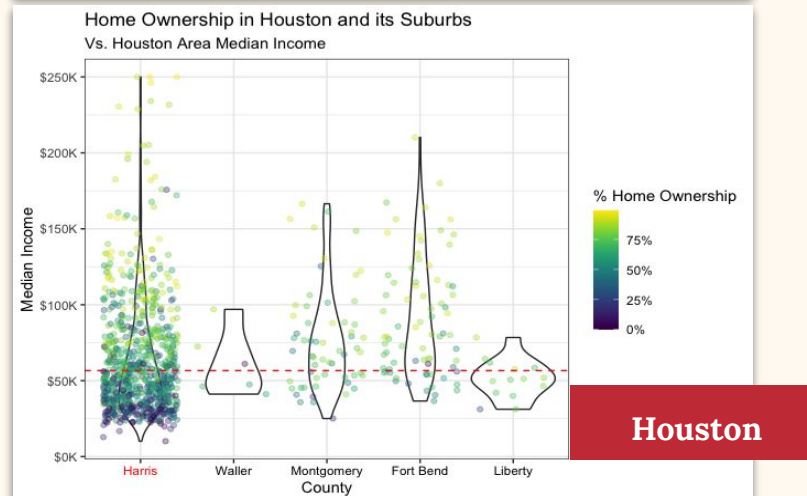
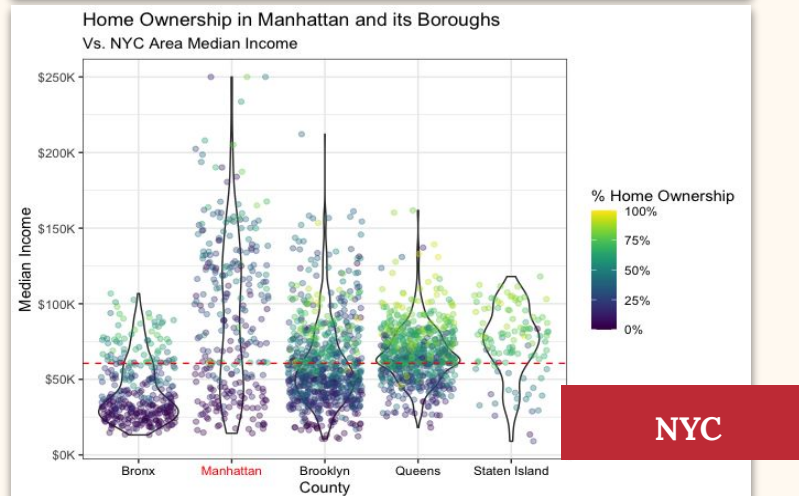
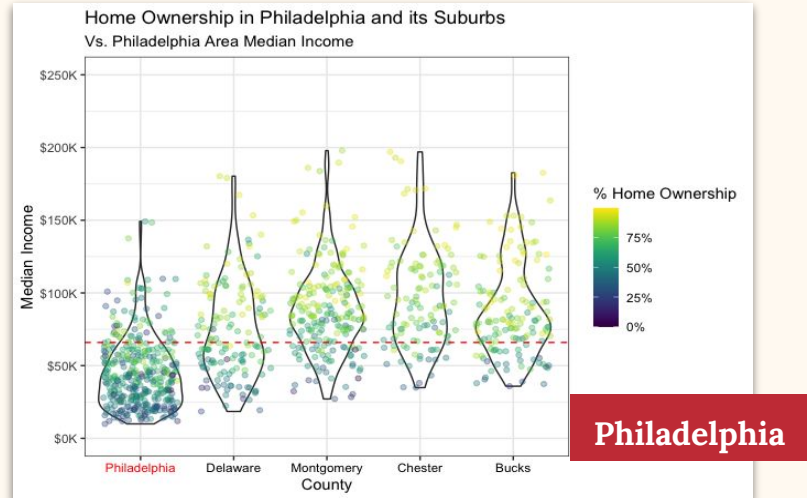
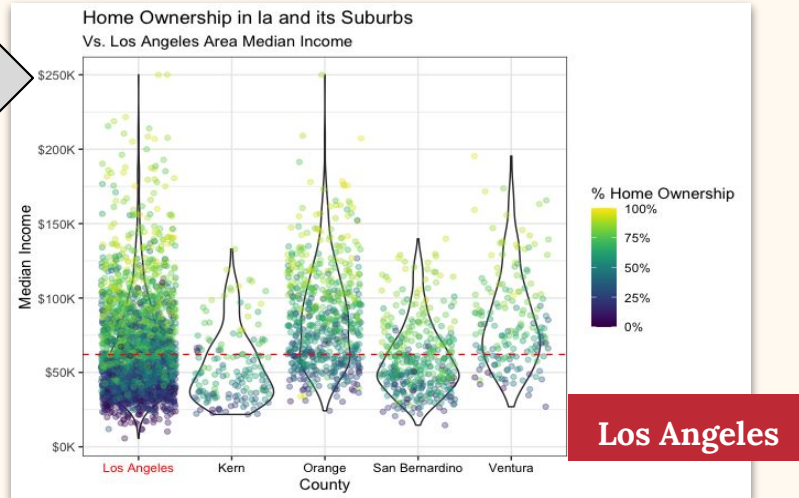
NYC

Household Income in Houston
Vs. Houston Area Average Median Income, \$64K

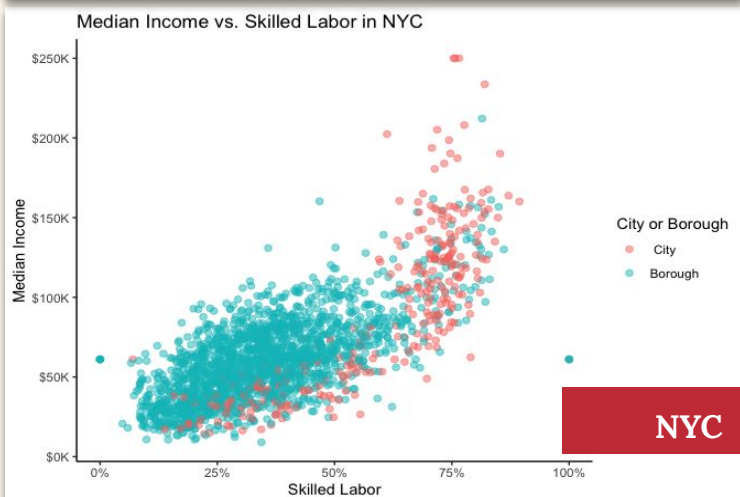
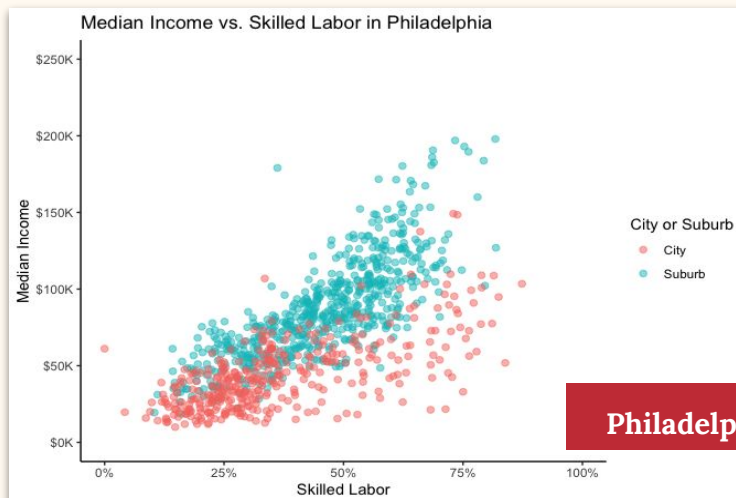


Houston

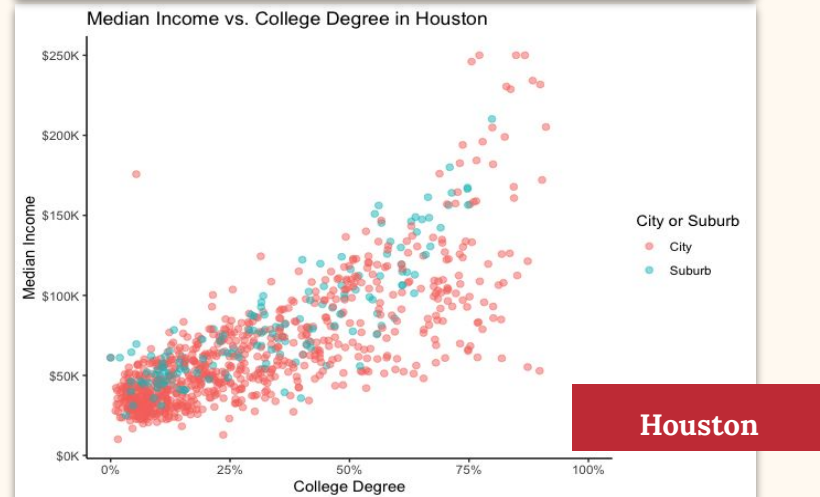
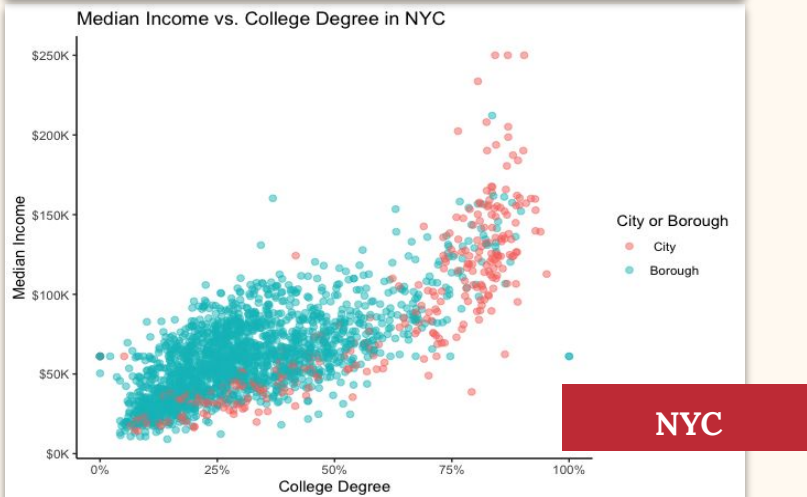
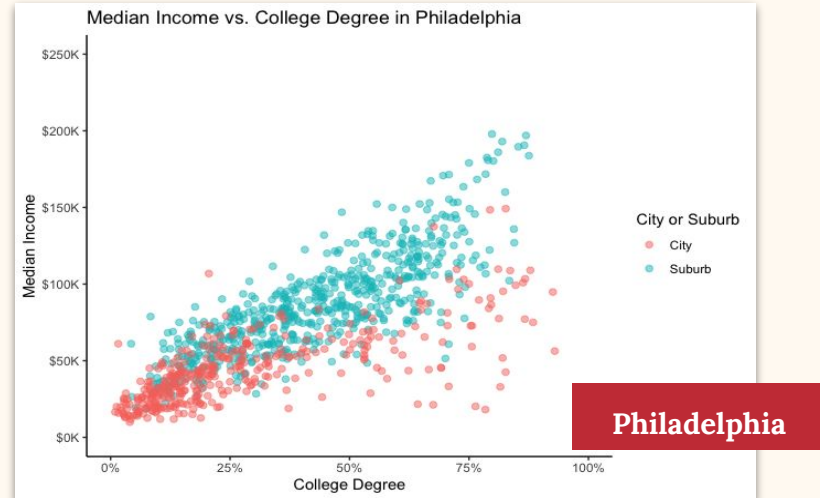
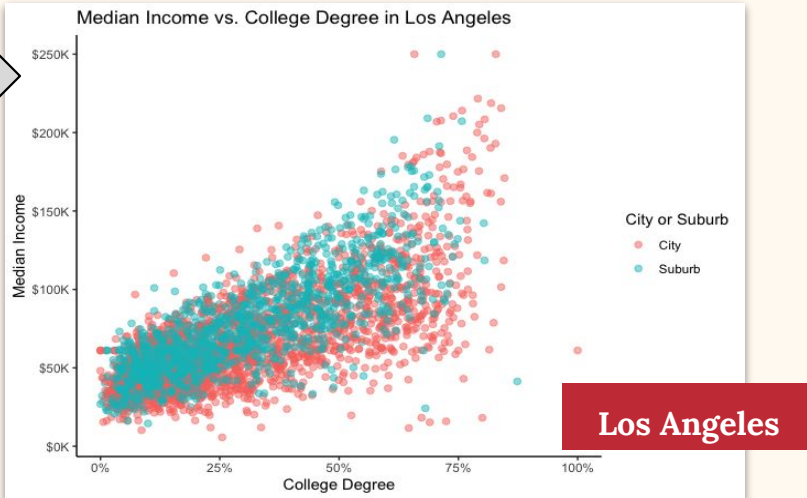
City vs Suburbs: Home Ownership



City vs Suburbs: Skilled Labor

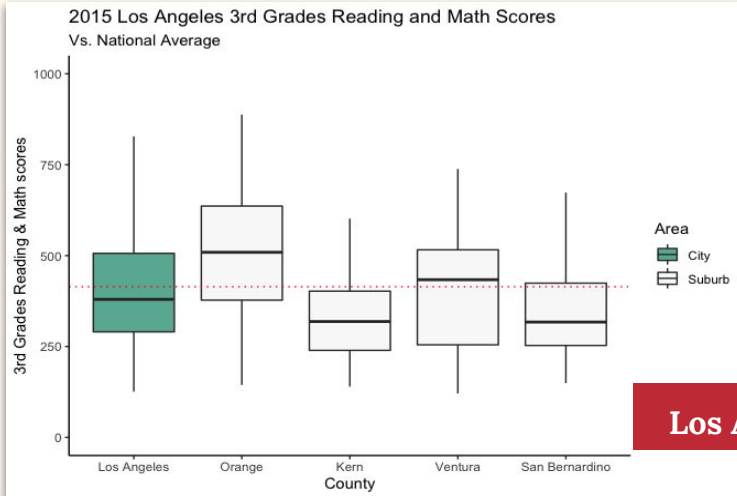


City vs Suburbs: College Degree

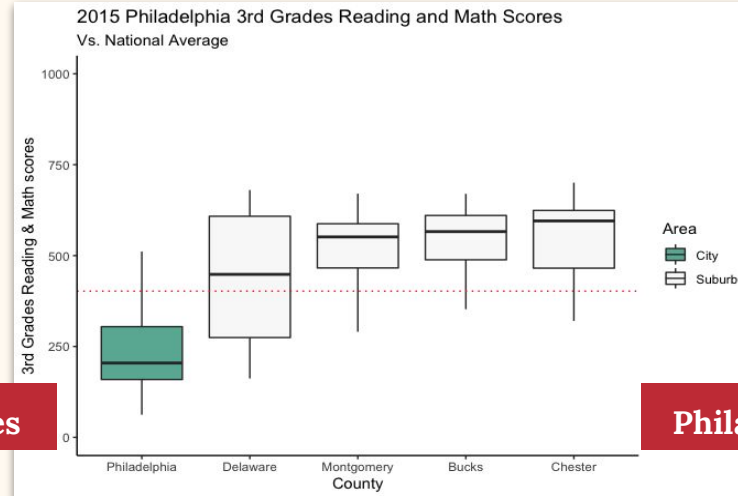


4.Education

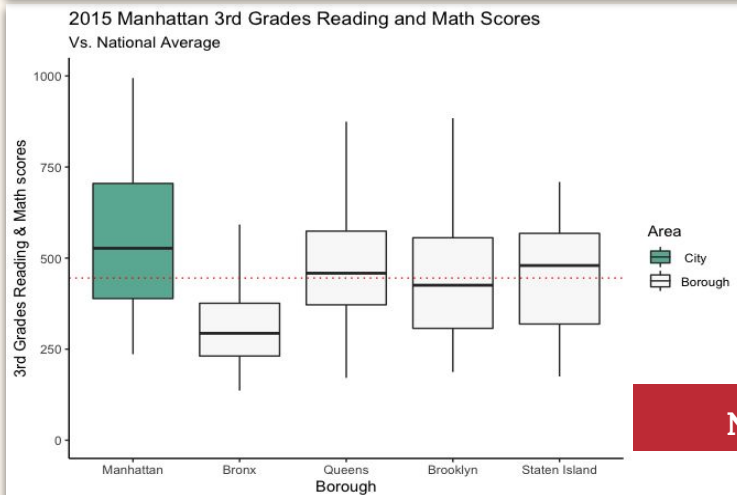
City vs Suburbs: Young Children's Math and Read Ability



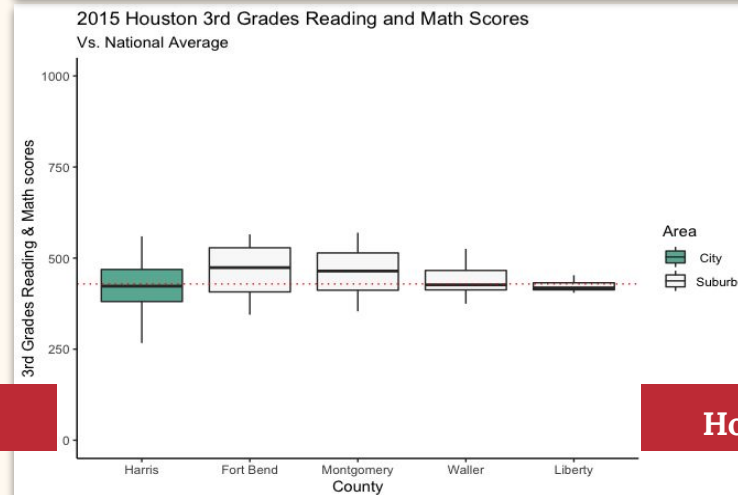
Los Angeles



Philadelphia



NYC

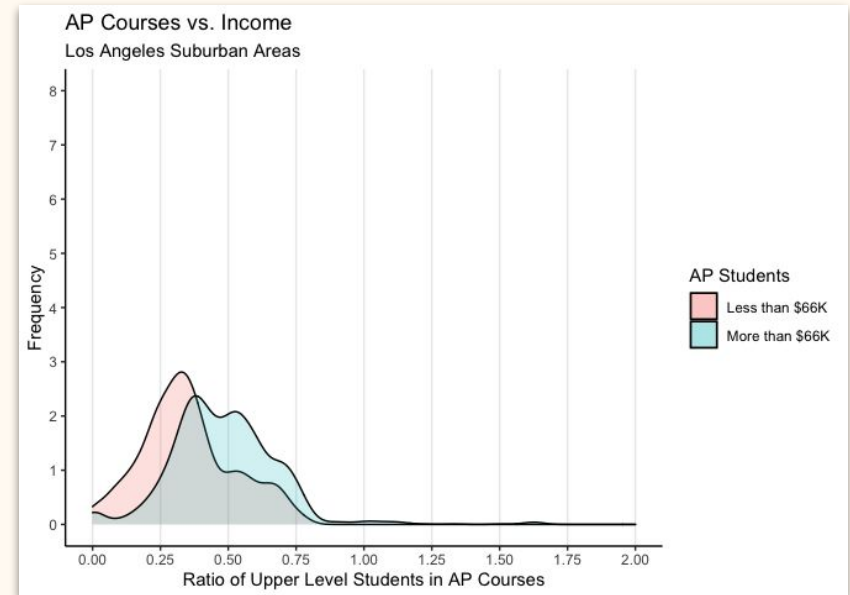
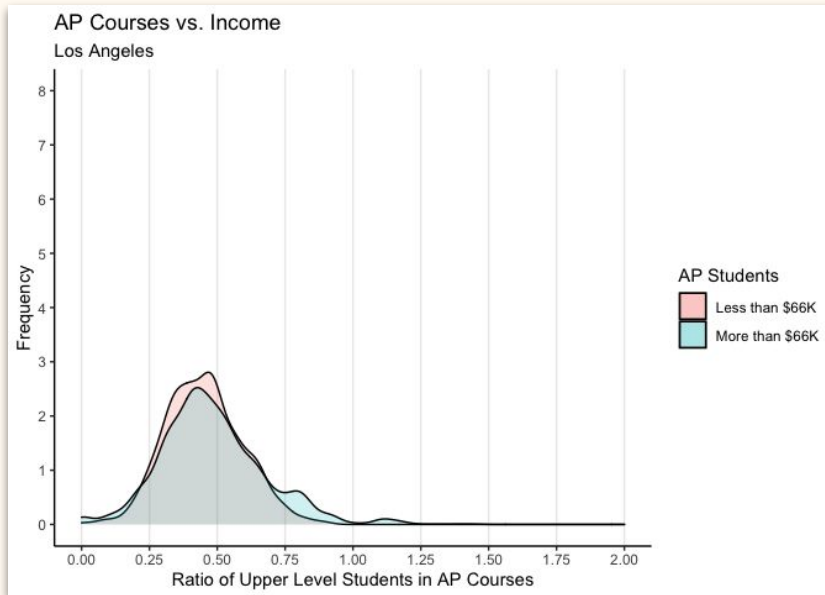


Houston

City vs Suburbs: Advanced Placement vs Income

4.Education

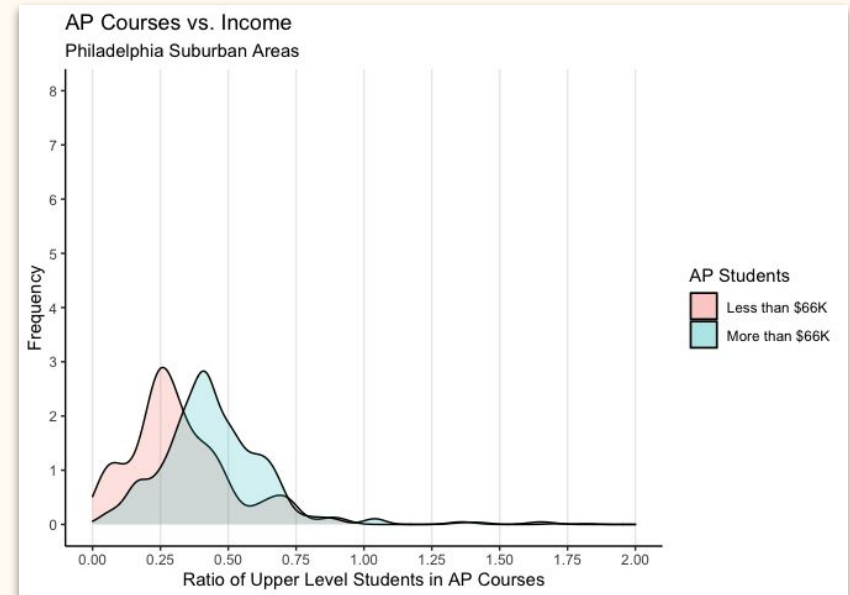
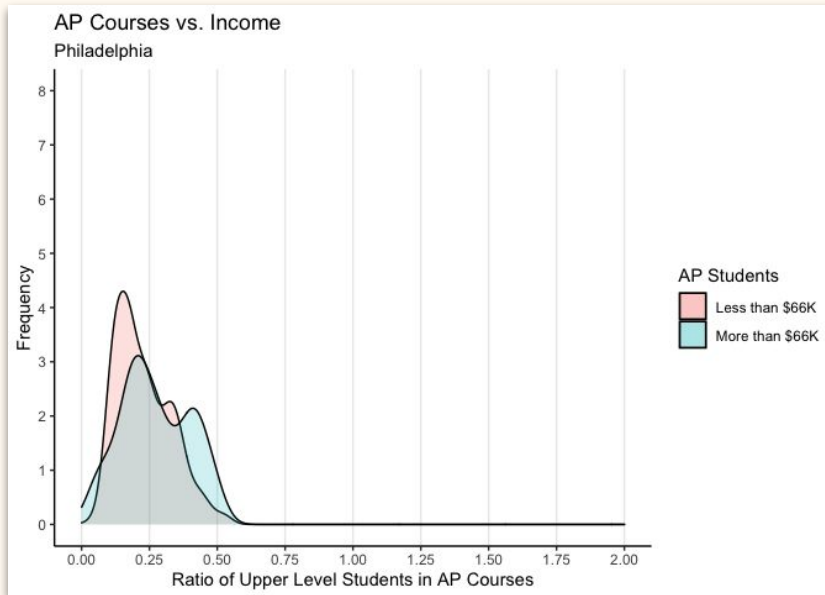
Los Angeles



City vs Suburbs: Advanced Placement vs Income

4.Education

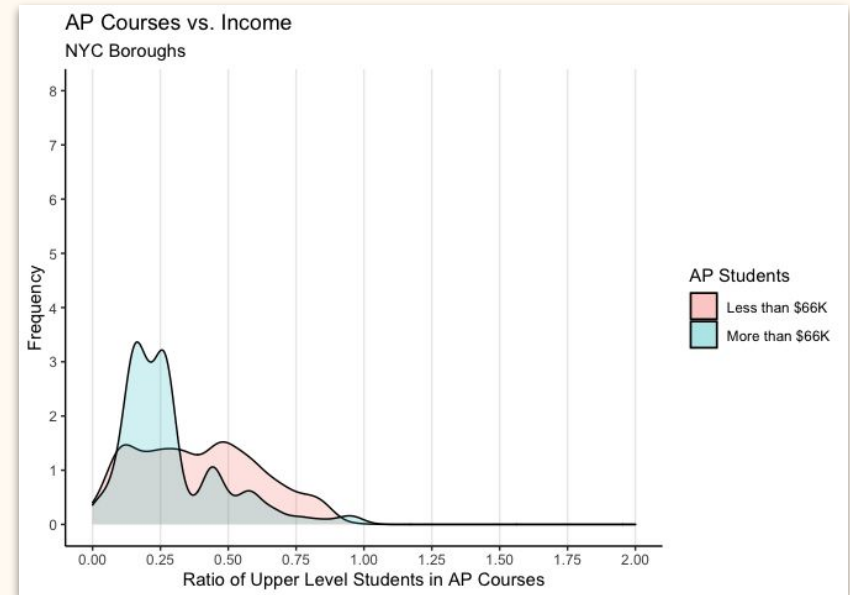
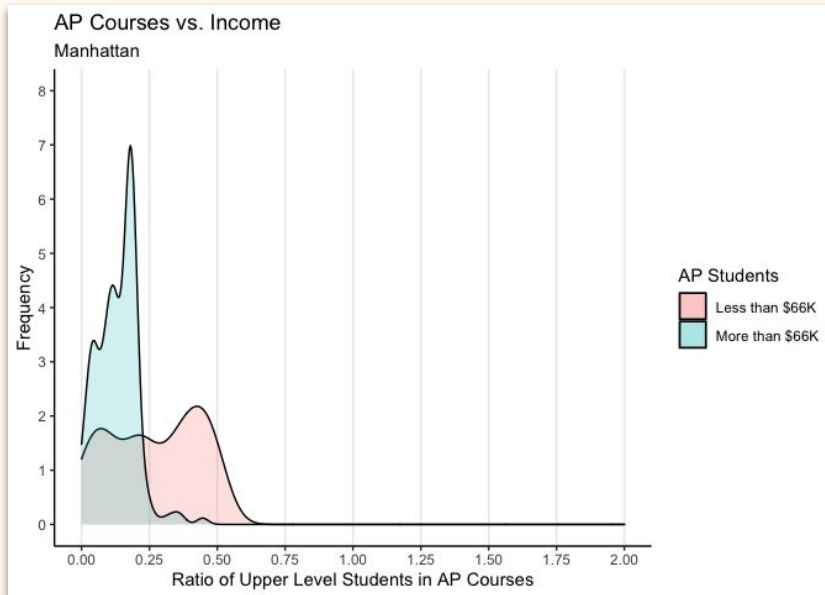
Philadelphia



City vs Suburbs: Advanced Placement vs Income

4.Education

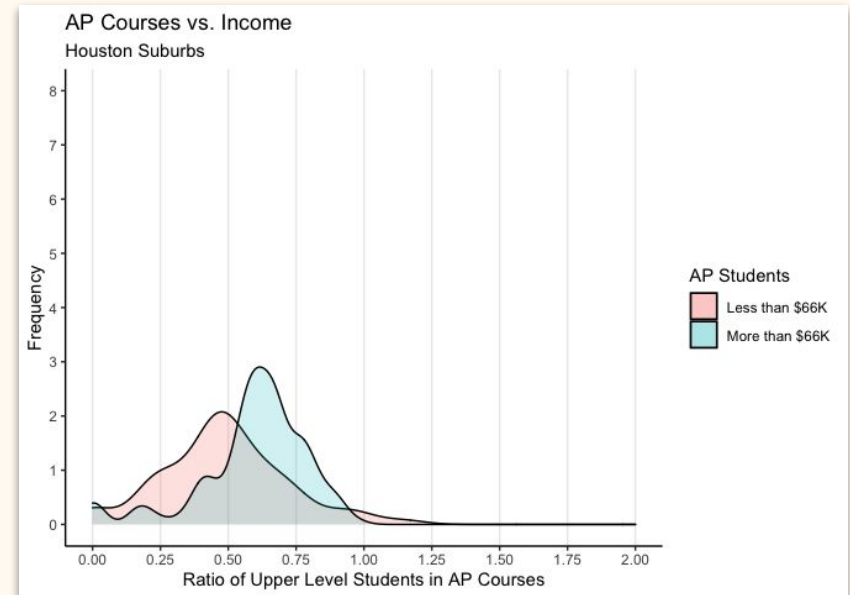
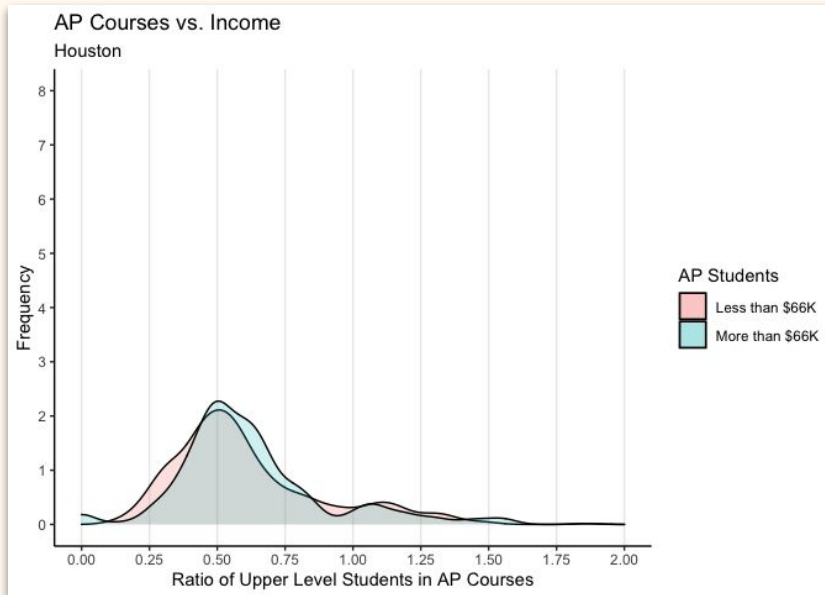
New York City



City vs Suburbs: Advanced Placement vs Income

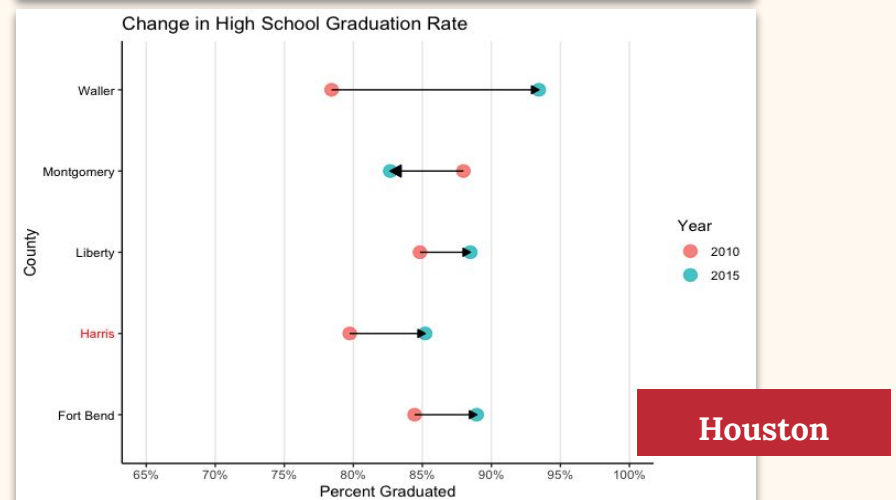
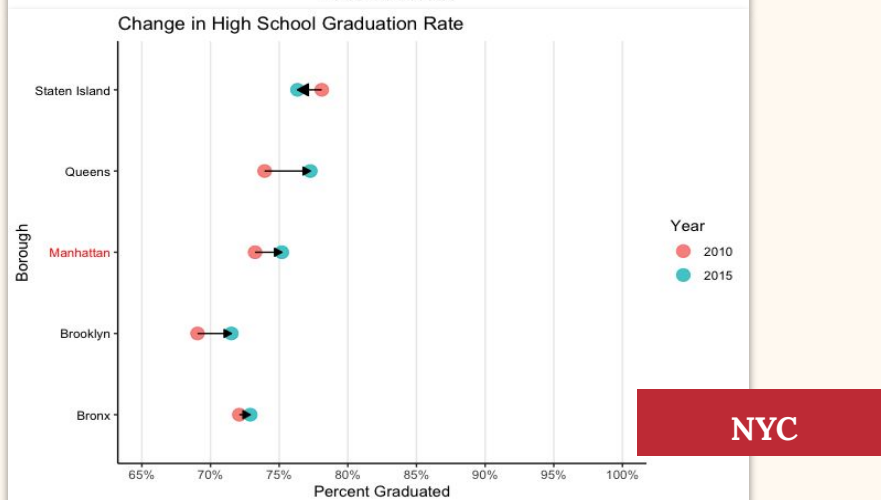
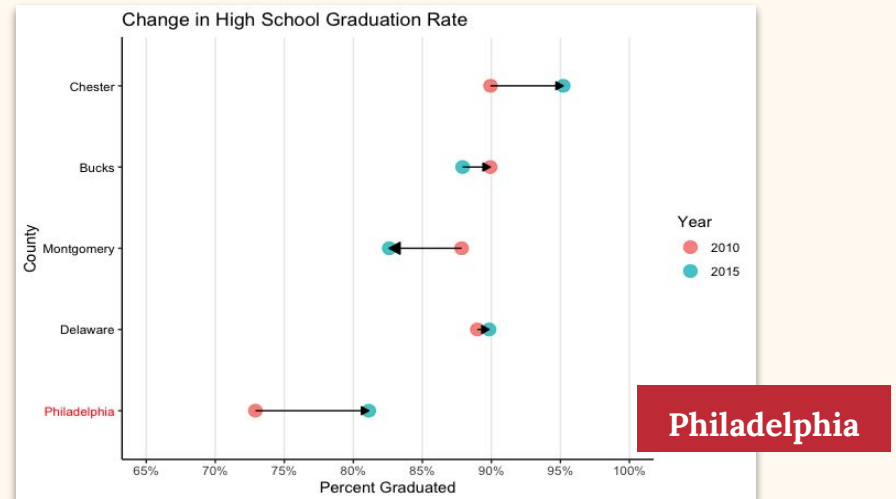
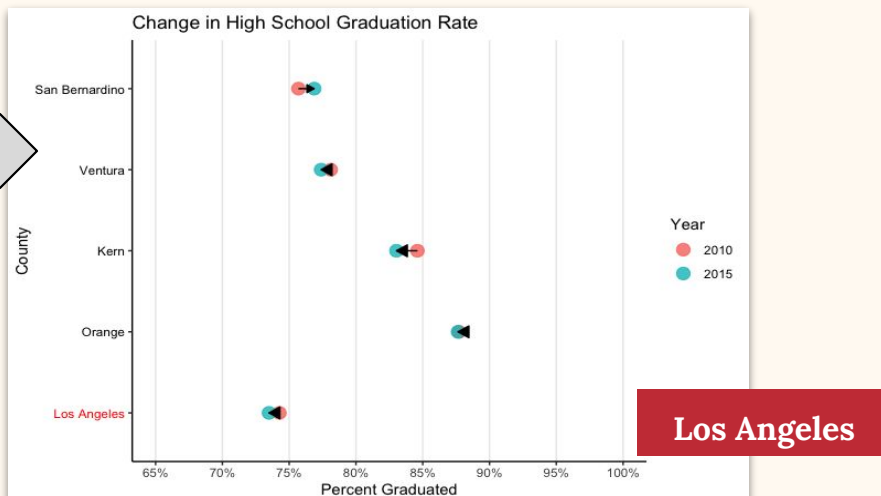
4.Education

Houston



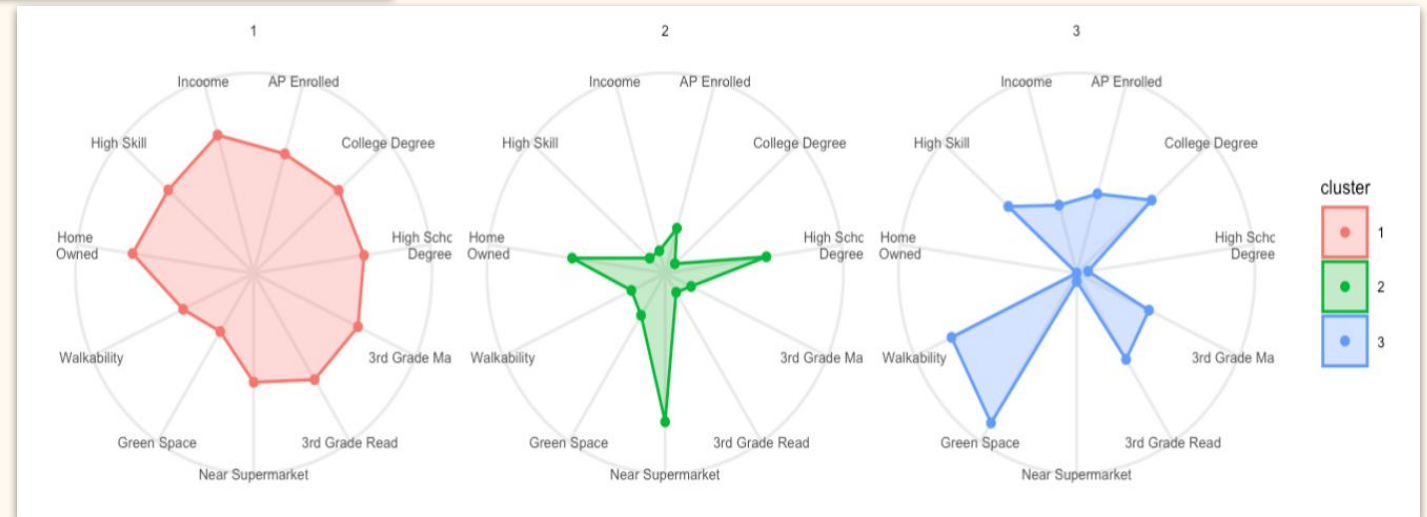
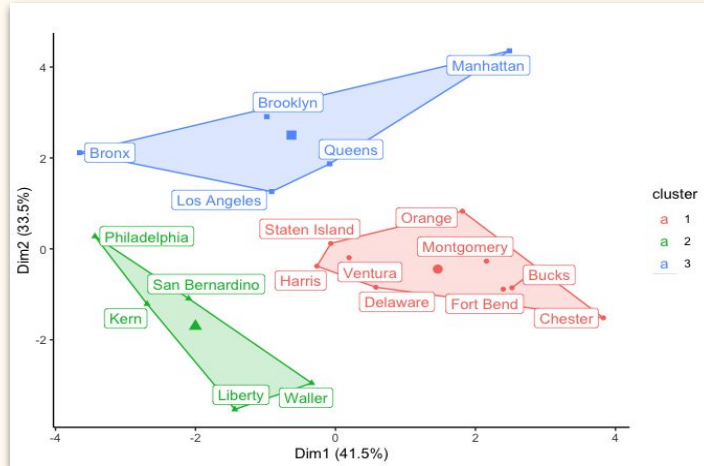
City vs Suburbs: High School Graduation Rate(2010, 2015)

4.Education



Machine Learning: K-Means Clustering

5.Clustering



Ethics and Conclusion

Consent

Misinterpretation

6. Ethics &
Conclusion

