

INTRODUCTION



We are working with TMAP – Make My Move, a company focused on paying remote workers to relocate. Many communities have dealt with students leaving for college and not coming back for their careers. But with the rise of remote working, there is no longer a need to flock to the coast lines or big-city headquarters. Make My Move helps connect these workers with the right community package for them.

The current website shares a general summary of population, home values, and weather. The community character depends on ~100-word summaries. Our data scraping was meant to find the character of these local communities and entice remote workers to their new home.

RESULTS

We can use Niche and TripAdvisor data to extrapolate values for use in a linear regression, using our survey results as weights. Each output variable should be the attractiveness of a community. Ideally, the weights would be unique to the remote worker's preferences.

Based on our scraped data and the survey's weighted desires: some examples of great communities to move to are Las Vegas, Nevada; Scottsdale, Arizona; and Tucson, Arizona.



Location	Final Score	Restauran	Attraction	Crime & S	Public Sch	Jobs	Restauran	Attraction	Commute	Weather	Health & F	Outdoor A	Median In	Diversity	Commute
Las Vegas,Nevada	0.652232	0.99792	1	0.75	0.82	0.82	0.99792	1	0.88	0.98	0.88	0.92	0.922449	0.98	0.88
Scottsdale,Arizona	0.650266	0.923794	0.799932	0.78	0.95	0.88	0.923794	0.799932	0.88	0.98	0.95	0.92	0.960234	0.88	0.88
Tucson,Arizona	0.641338	0.914758	0.849608	0.75	0.88	0.78	0.914758	0.849608	0.95	0.98	0.85	0.95	0.900473	0.95	0.95
Huntington Beach,California	0.635478	0.858882	0.598047	0.78	0.95	0.82	0.858882	0.598047	0.85	0.98	0.98	0.98	0.966526	0.95	0.85
Alpharetta,Georgia	0.63437	0.905327	0.564134	0.78	0.98	0.95	0.905327	0.564134	0.85	0.85	0.95	0.92	0.981712	0.95	0.85
Long Beach,California	0.634296	0.917812	0.688893	0.75	0.88	0.78	0.917812	0.688893	0.88	0.98	0.95	0.95	0.931872	0.98	0.88
Sugar Land,Texas	0.632143	0.885127	0.481103	0.82	0.98	0.98	0.885127	0.481103	0.82	0.88	0.95	0.92	0.987074	0.95	0.82

METHODS

Our survey among current students and remote workers demonstrated the demand for experiential amenities, such as good food, education, and local job opportunities.

Using that data, we started web scraping with Python. We introduce you to the ultimate web scraping tools: BeautifulSoup and Selenium, which helped us in automating the web scraping process. Some of the websites that we acquired our data from includes TripAdvisor, Niche, U.S.News, and Yelp.



CHALLENGES

- Web scraping was a new concept to many of us. Most of the team had to learn BeautifulSoup and Selenium to automate web scrape.
- Many websites have anti-bot detection systems which makes it difficult to scrape websites.

ACKNOWLEDGMENT

We would like to thank our corporate mentor Reuben Wilson for supporting and encouraging us throughout this project. His feedback has been instrumental towards completing this project. We would also like to thank Kalika Lacy for her support throughout the project. Finally, we would like to thank Allie who has been an amazing TA and has guided us throughout the semester.

