

Apartment Finder

Balancing Commute Time with Rent

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Use Case

- Got a new job? Considering moving closer to work?
- How do you determine if a cheaper apartment further from work is worth the time in commuting? **With the web app featured in this presentation!**

https://share.streamlit.io/sdblass/streamlit/main/apartments_streamlit_isochrone.py

Enter user data

Enter your workplace location in the fields below.

Street

932 N Kenmore St16/100

City

Arlington9/100

State

VA2/2

Zip

222015/5

Enter your hourly wage (\$ per hour)

This will let us determine how much your time spent commuting is worth to you. The more time you spend commuting, the higher your effective rent will be.

Hourly wage

40-+

How will you get to work?

- ☒ Drive
☐ Bike
☐ Walk

Select your desired range of rents

The search will increase the rent based on the time required to commute to your set job location.

Range of rents

15003500

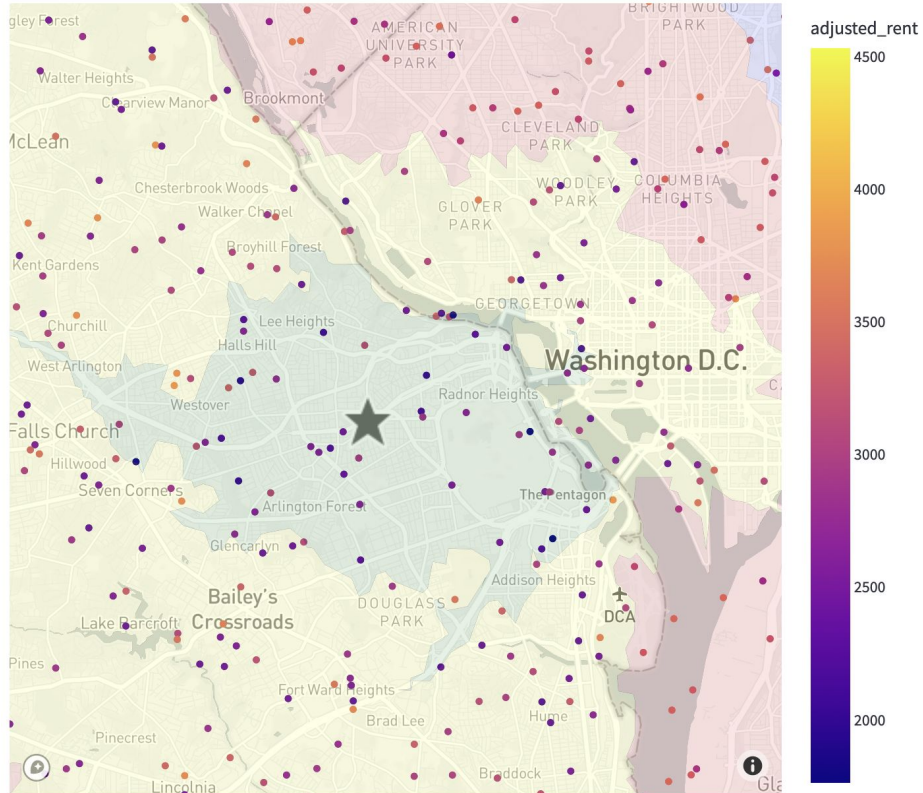
14004000

Select the types of apartments to search for.

Studio × One bedroom × Two bedrooms ×

⊗ ▼

Visualize apartment listings



Commute times (minutes)	
<10	
10-20	
20-30	
30-40	
>40	

Visualize apartment listings

The three cheapest apartments
for each commute length

rent	effective rent	lat	long	random_real	type	commute time (minutes)
1501	1767	38.8630	-77.0581	random	studio	<10
1516	1782	38.8823	-77.0633	random	studio	<10
1563	1829	38.9032	-77.0811	random	studio	<10
1513	2046	38.8047	-77.1625	random	studio	10-20
1525	2058	38.8971	-77.0515	real	studio	10-20
1561	2094	38.9094	-77.0655	random	studio	10-20
1503	2303	38.9637	-77.3555	random	studio	20-30
1510	2310	38.7211	-77.0655	random	studio	20-30
1518	2318	38.7985	-77.2976	random	studio	20-30
1500	2566	38.7628	-77.3228	random	studio	30-40
1500	2566	39.0500	-77.4171	random	studio	30-40
1502	2568	38.6860	-77.2444	random	studio	30-40
1502	2835	39.0925	-77.0659	random	studio	>40
1505	2838	39.0628	-77.4251	random	studio	>40
1507	2840	38.6015	-77.3342	random	studio	>40

Future work

- Scrape data from a real estate listings site such as apartments.com. You will see addresses in the table above instead of latitude and longitude.

Pipeline

