

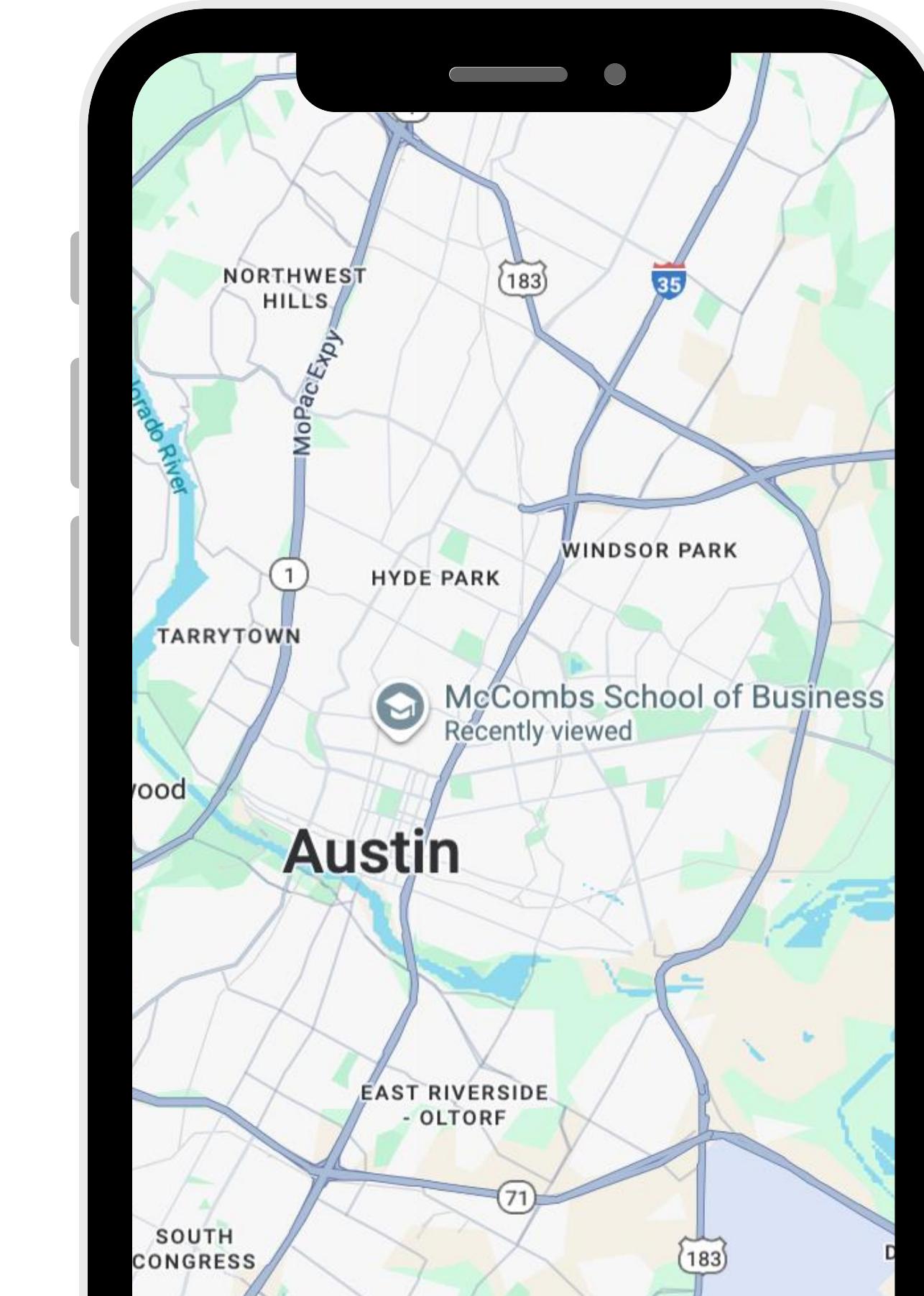
# Dwelling.

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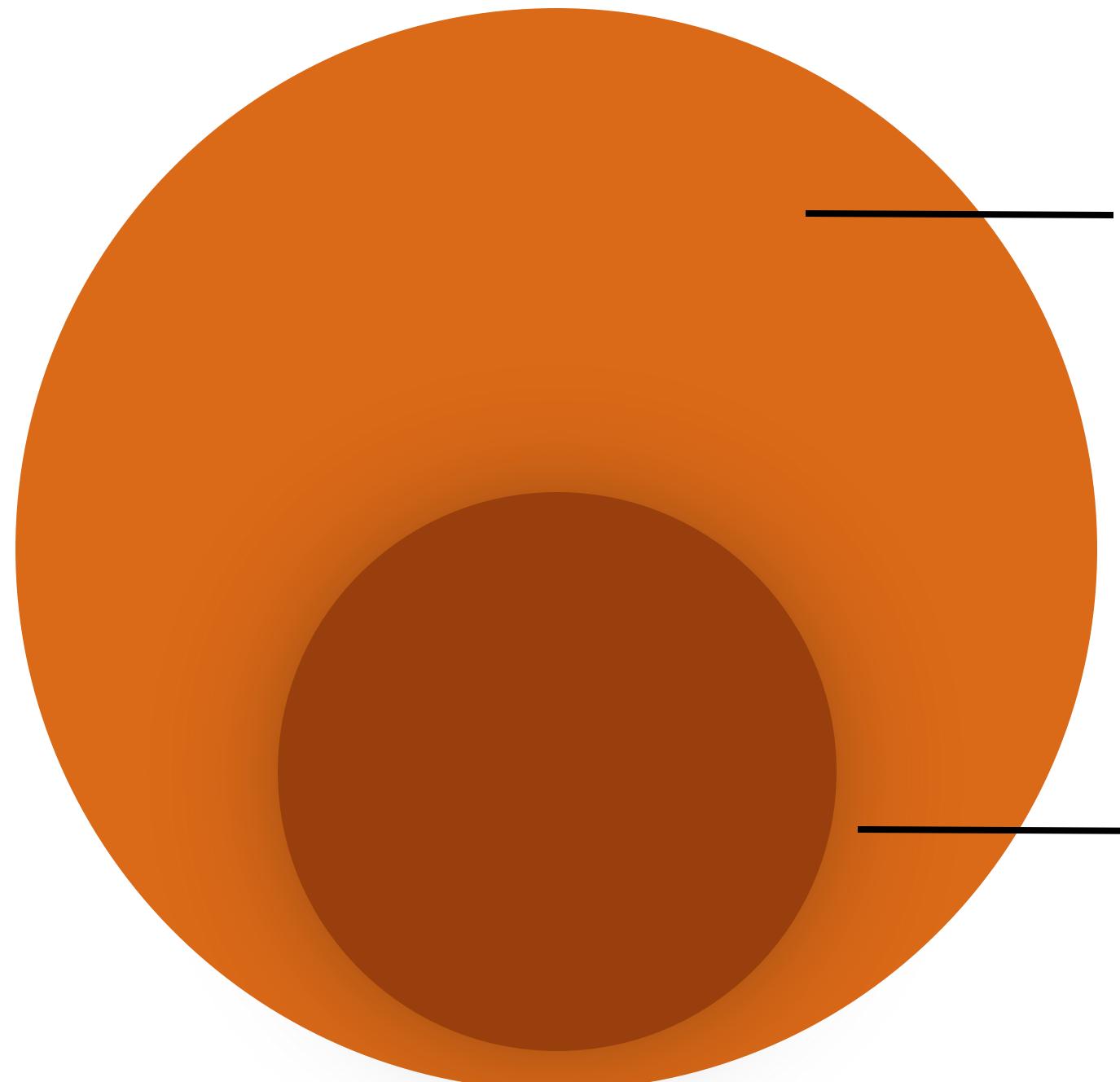
Your new apartment finding best friend.

Explore Now

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Humphrey Hui, Archie Korale, Sam LeFebre



# The Problem.



## WHAT RENTERS CARE ABOUT

- *NEIGHBORHOOD SAFETY*
- *PLACES TO EAT*
- *SCHOOLS NEARBY*
- *ACTIVITIES TO DO*
- *ETC.*

## WHAT RENTAL WEBSITES PROVIDE

- *APARTMENT FEATURES*
- *PRICE*
- *LOCATION*

...Dwelling bridges this gap by pulling data from hundreds of nearby locations to give better apartment recommendations.

Dwelling.

## DATA SOURCES



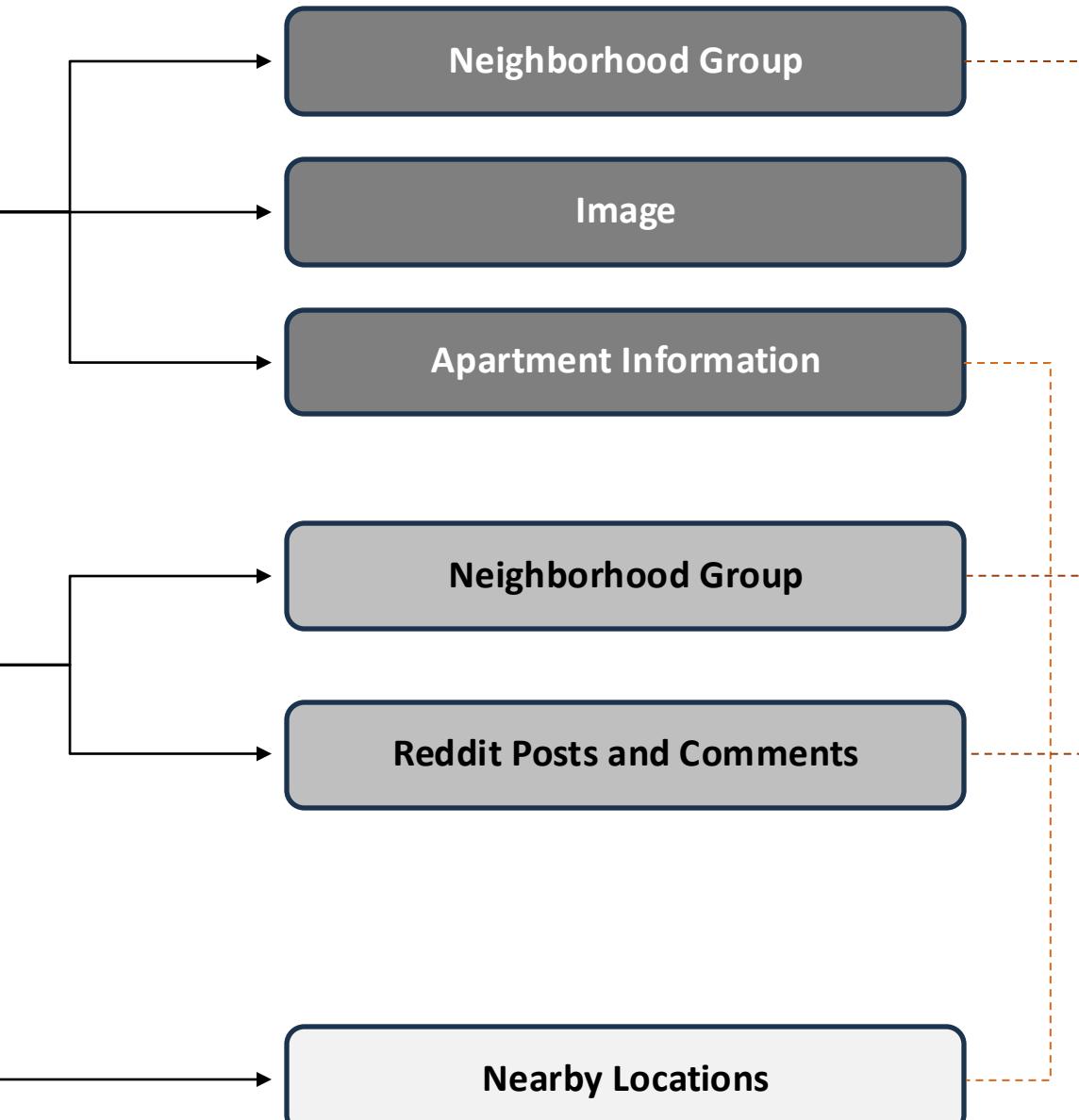
SELENIUM



API CONNECTION



API CONNECTION



Dwelling.

## DATA SPECIFICS



Apartment Information

Image



Neighborhood Group

Reddit Posts and Comments

Neighborhood Group

Name of Residence

Number of Beds and Baths

Address and Zip Code

Rent



Processed apartment images using Google Cloud Vision API



Generated binary amenity features (pool, modern kitchen) from visual labels



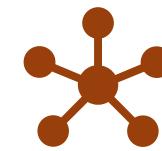
Calculated luxury scores based on premium materials and design quality



Created 14 neighborhood groups and divided each apartment complex based on zip code



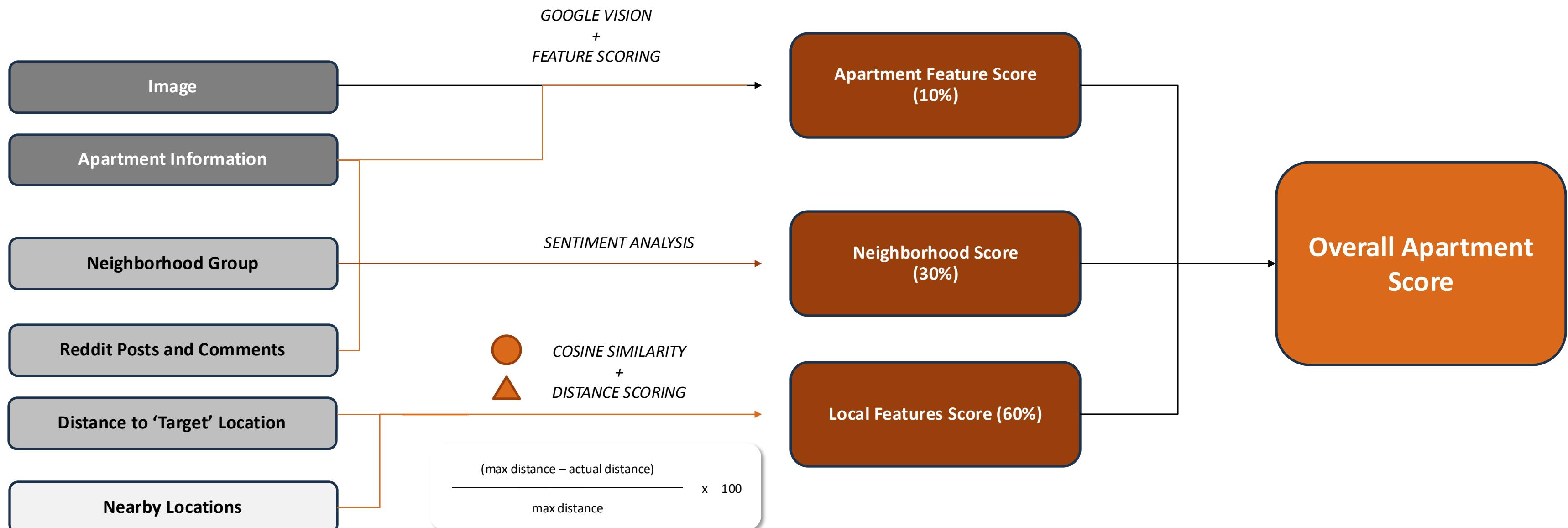
Used VADER to create a sentiment score for each Reddit post [-1, 1]



Assigned Reddit posts to a neighborhood using roBERTa and keyword matching

Dwelling.

## DATA



User's desired features (text) factored in

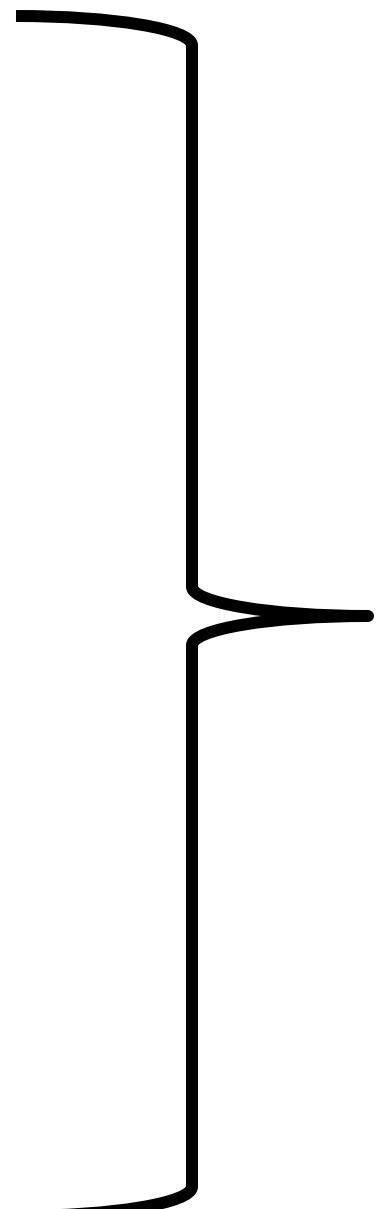


User's desired location factored in

**Dwelling.**

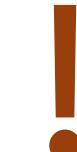
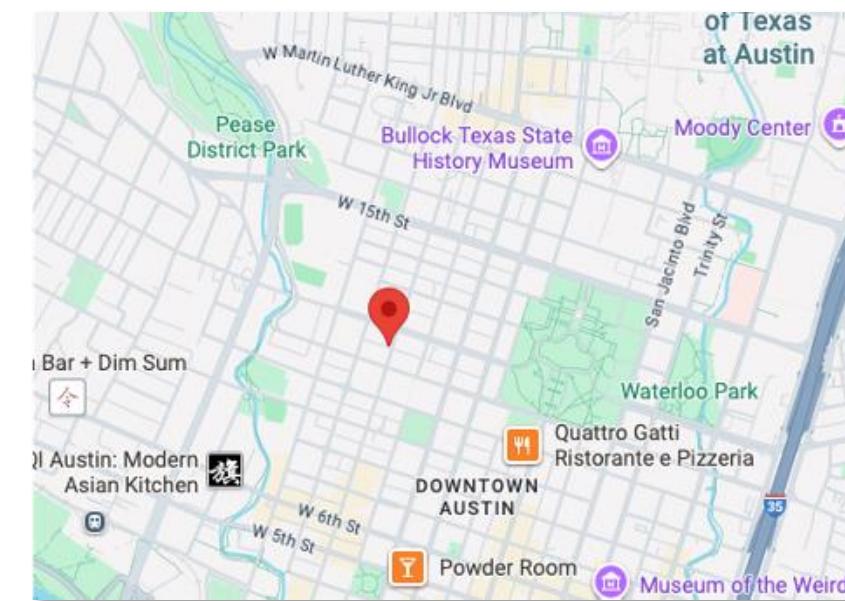
## TEST 1

- For our first test, we placed ourselves in the shoes of a young adult
- We imagined them wanting to be near a college, thrift shop, and nightclub in Downtown Austin



### 1108 Nueces Street

#### *The Capitol Living*



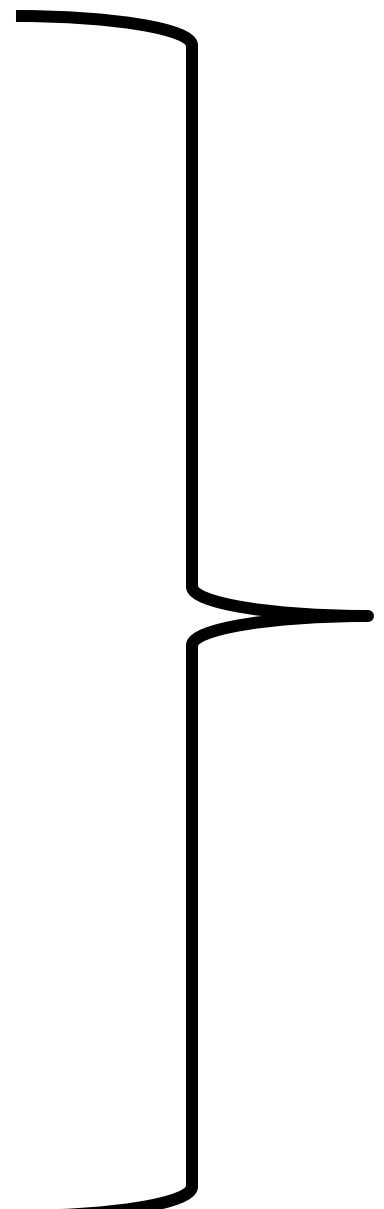
#### HIGHLIGHTS

- 6 minutes to UT
- 2 minutes to Downtown/6th Street

Dwelling.

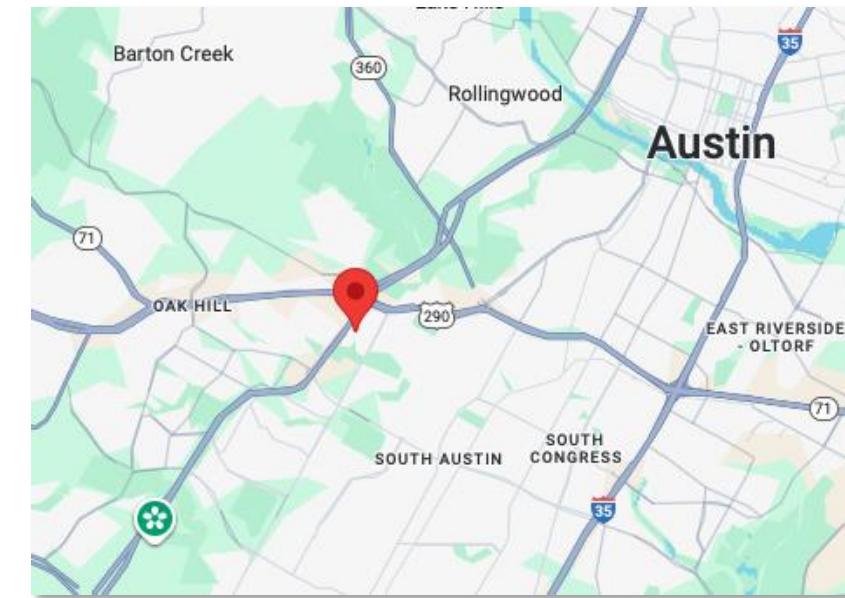
## TEST 2

- For our second test, we placed ourselves in the shoes of a young family
- We imagined them wanting to be near an **elementary school**, **pediatrician**, and **grocery store** also in **Downtown Austin**



### 5701 South Mopac Expressway

#### *River Stone Ranch*



#### HIGHLIGHTS

- Placed in between two elementary schools
- 5-10 minutes to both a medical center and a Target

Dwelling.

# Questions?

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