

# AffordAbode

Identifying Below-Market Rental Properties for  
Students

Arman Sandher, Gunakaushik Vengalasetti, |  
Rudy Cruz

# The Problem

- College students and renters struggle to find affordable housing
- Difficult to identify below-market rentals
- Manual search is time-consuming

# The Solution

- Automated data analysis tool:
  - Scrape Redfin listings
  - Analyze prices
  - Identify below-market value properties
  - Accessible web application

# System Architecture Overview

- Frontend:
  - Simple web interface
- Backend:
  - Scrapy/Selenium: Collect listings
  - Data Analyzer (Python): Process & analyze data
  - GPT 4.0: Market value trends & deal identification
  - Flask / AWS EC2: Serve results
- Data Storage:
  - CSV/JSON or database

# Data Collection

Scrape Redfin listings for:

- Price
- Square footage
- Bedrooms / bathrooms
- Location
- Tools: Scrapy + Selenium.

# Market Value Analysis

- Calculate averages by bedroom, bathroom, square footage, and location
- Compare each property's price vs. market average
- Identify below-market listings using AI Integration

# Deployment

- Local: Python + Flask
- Production: AWS EC2.

Future:

- Database integration.
- User input for custom searches.

DEMO



# Key Benefits

- Saves time for students/renters
- Automates search for affordable housing
- Scalable to multiple areas

# Next Steps / Future Work

- Improve scraping robustness
- Expand LLM capabilities
  - Questionnaire