

Housing Market Sales Dashboard

Salma Katri

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Background

Motivation

- Housing prices have seen unprecedented y-o-y increases
- Homebuyers need real-time data to understand market trends
- Redfin is one of the most widely used website by homebuyers
- While data is available, there is no aggregate view

Objective

- Build interactive dashboards to display up-to-date housing market trends, key statistics and graphs



Data Ingestion

Recently Sold Main Page

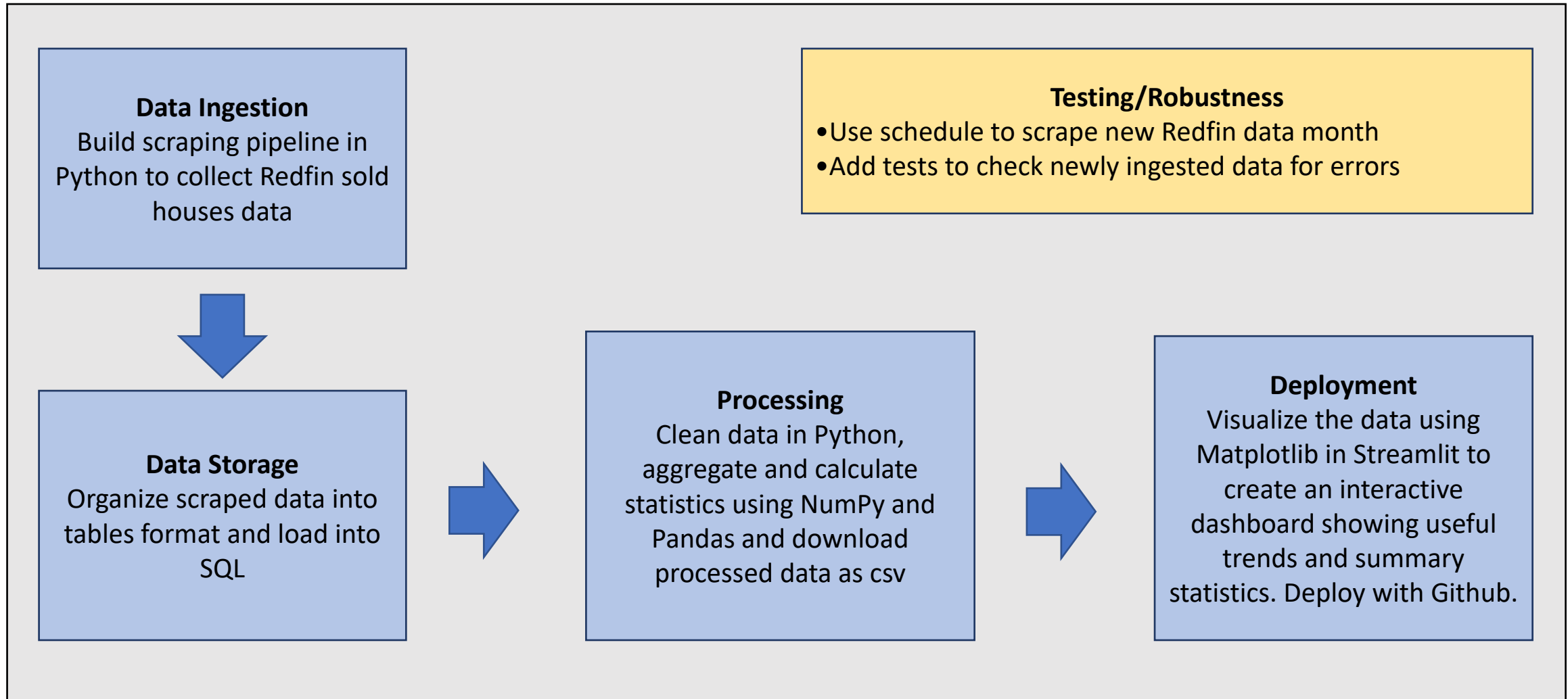
The screenshot shows the Redfin website's 'Recently Sold' page for Seattle. The browser address bar displays 'redfin.com/city/16163/WA/Seattle/recently-sold'. The page features a map of Seattle on the left with various neighborhoods labeled. On the right, there's a section titled 'Recent Home Sales in Seattle' with filters for price (No min to No max) and a list of 40 homes. Two home listings are visible: one for \$705,000 (1 Bed, 1 Bath, 680 Sq. Ft.) and another for \$787,500 (3 Beds, 2.5 Baths, 1,620 Sq. Ft.).

Individual House Listing

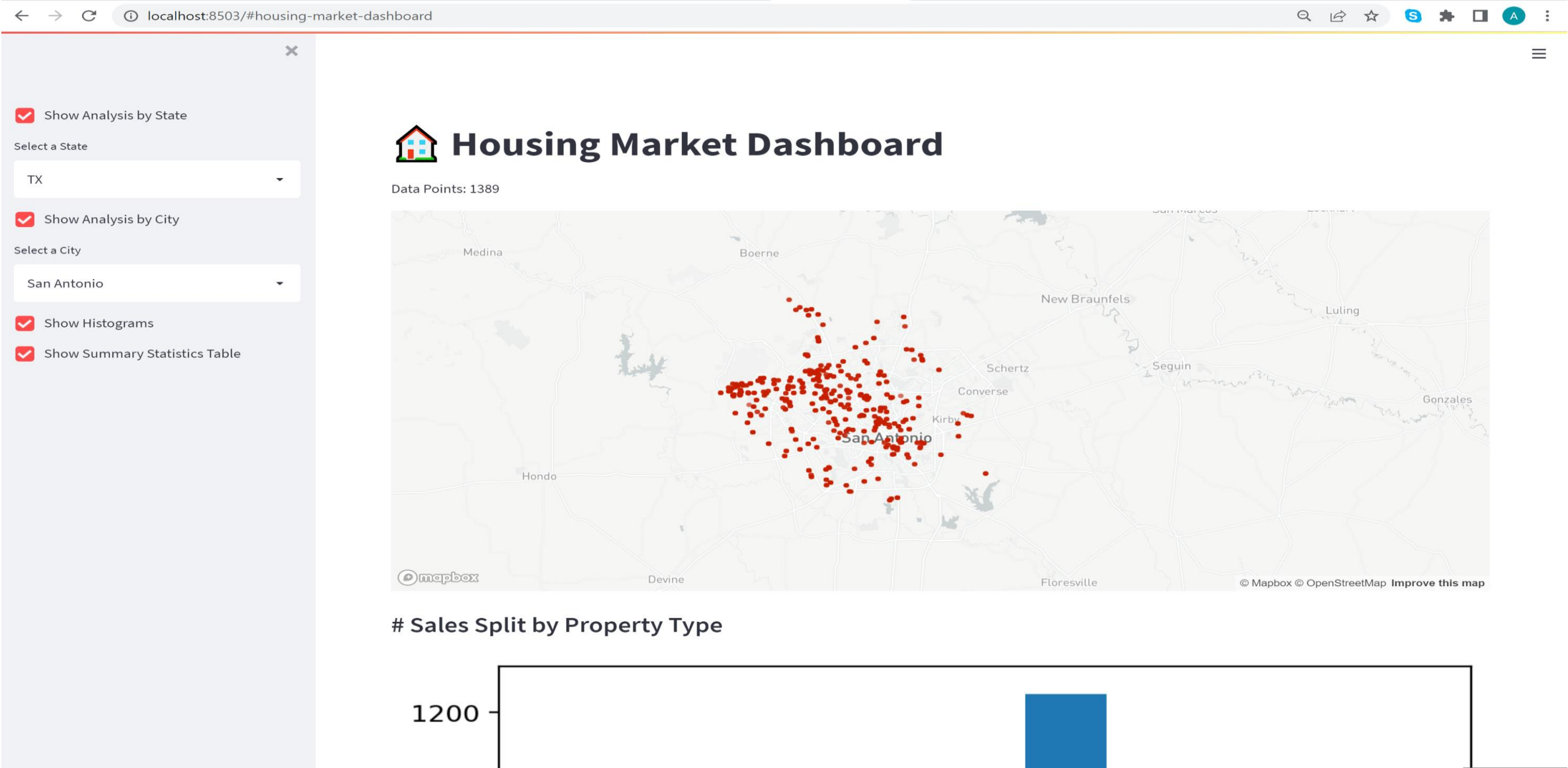
The screenshot shows an individual house listing on Redfin. The browser address bar displays 'redfin.com/WA/Seattle/5047-44th-Ave-S-98118/home/492782'. The page features a large photo of a blue house with a garden. Below the photo, the address '5047 44th Ave S, Seattle, WA 98118' is listed, along with the price '\$966,000', 3 Beds, 2 Baths, and 1,720 Sq Ft. There are buttons for 'Video Tour', 'Floor Plans', and 'Street View'. A section titled 'Is this your home?' includes a button 'I'm the owner'.

Scraping pipeline designed to download sold homes data from Redfin, then scrape additional home specific information from house listing link

Pipeline Design



Deployment



Future Work

- Add individual houses scraped data to get more features
- Create more visualizations and improve formatting
- Add more time range to show trends
- Automate pipeline to make monthly updates
- Check for errors in data and handle