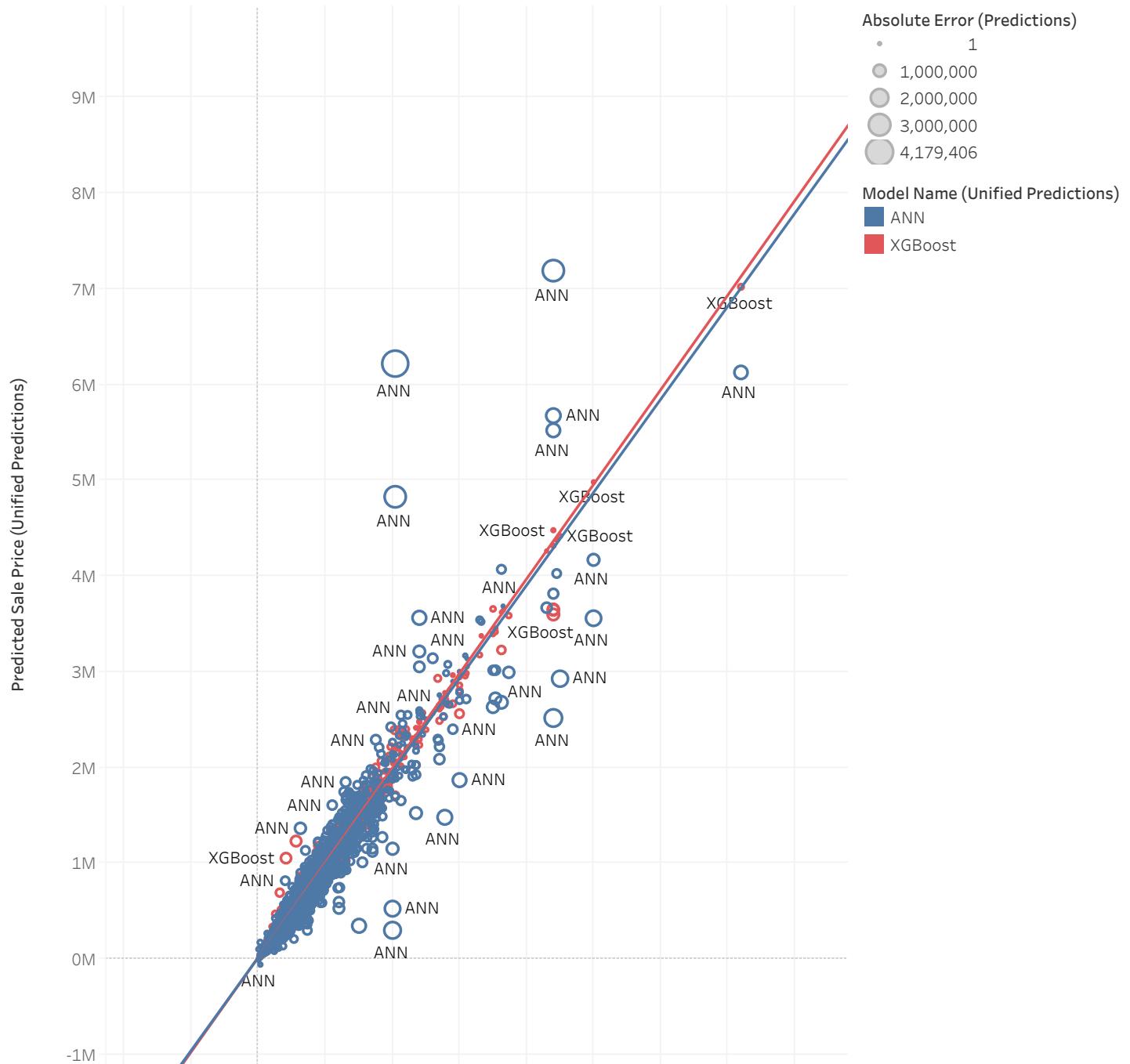


## Actual vs. Predicted Prices (Scatter Plot)



Sum of Actual Sale Price vs. sum of Predicted Sale Price (Unified Predictions). Color shows details about Model Name (Unified Predictions). Size shows sum of Absolute Error (Predictions). The marks are labeled by Model Name (Unified Predictions). Details are shown for Property Id (Unified Predictions). The data is filtered on sum of ANN Predicted Sale Price and Year Built (Features). The sum of ANN Predicted Sale Price filter keeps non-Null values only. The Year Built (Features) filter ranges from 1901 to 2017. The view is filtered on Model Name (Unified Predictions), which keeps multiple members.

# Prediction Error Distribution (Bar Chart)



700M

697,22

650M

600M

550M

500M

450M

400M

359,01

350M

300M

250M

200M

150M

100M

50M

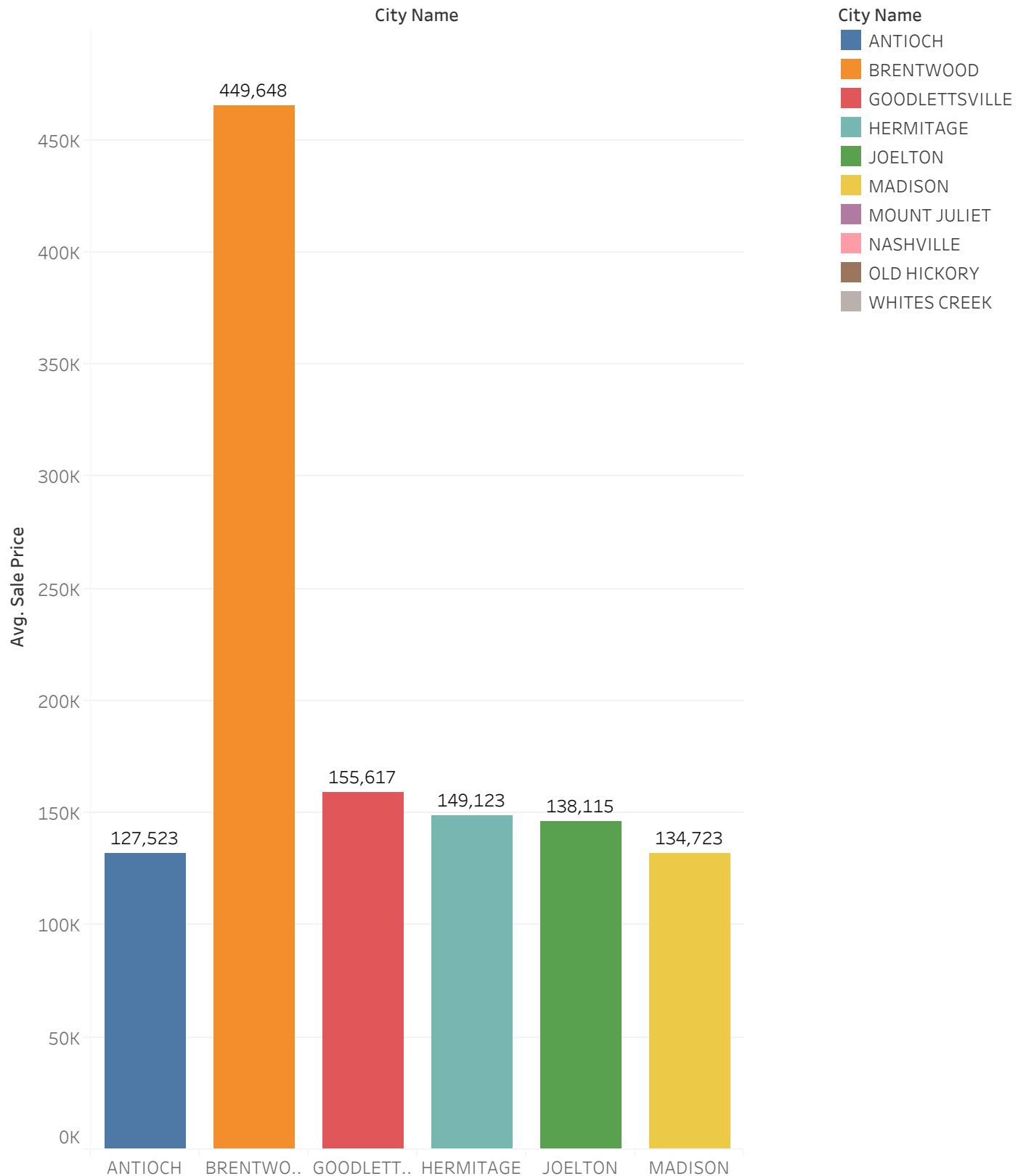
0M

A.. X..

Absolute Error (Predictions)

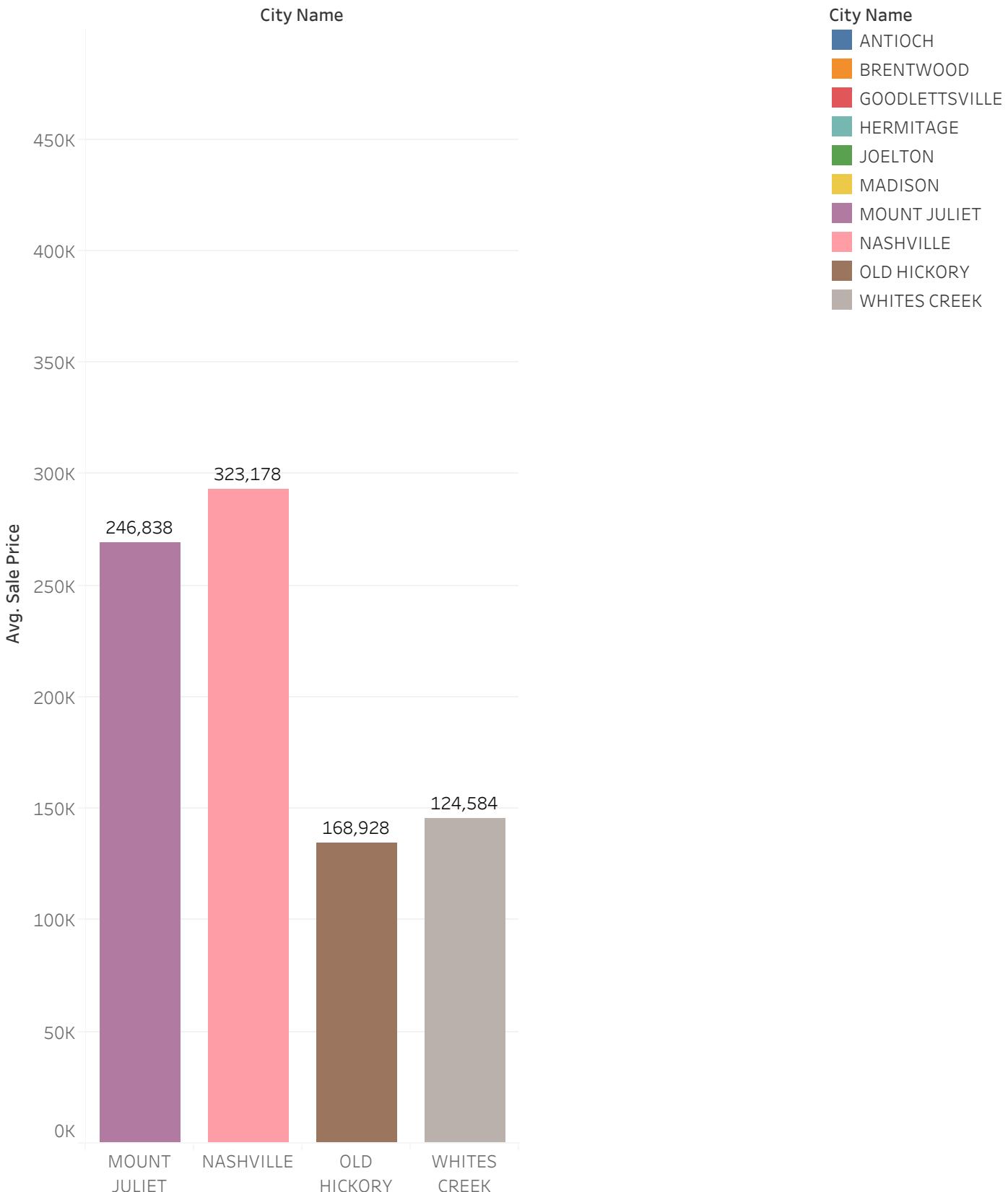
Sum of Absolute Error (Predictions) for each Model Name (Unified Predictions). Color shows details about Model Name (Unified Predictions). The marks are labeled by sum of Absolute Error (Predictions). The data is filtered on Year Built (Features), which ranges from 1901 to 2017. The view is filtered on Model Name (Unified Predictions), which keeps multiple members.

## Average Sale Price by Neighborhood



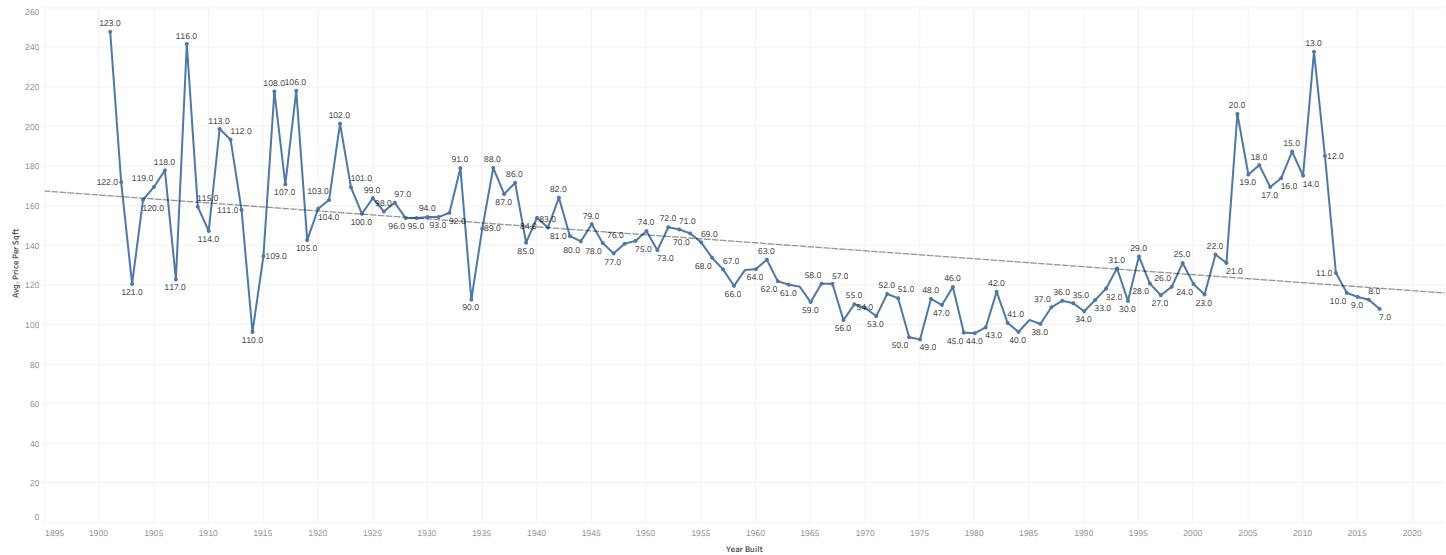
Average of Sale Price for each City Name. Color shows details about City Name. The marks are labeled by average of ANN Predicted Sale Price. The data is filtered on Model Name (Unified Predictions), which keeps multiple members. The view is filtered on City Name, which keeps 10 of 10 members.

## Average Sale Price by Neighborhood



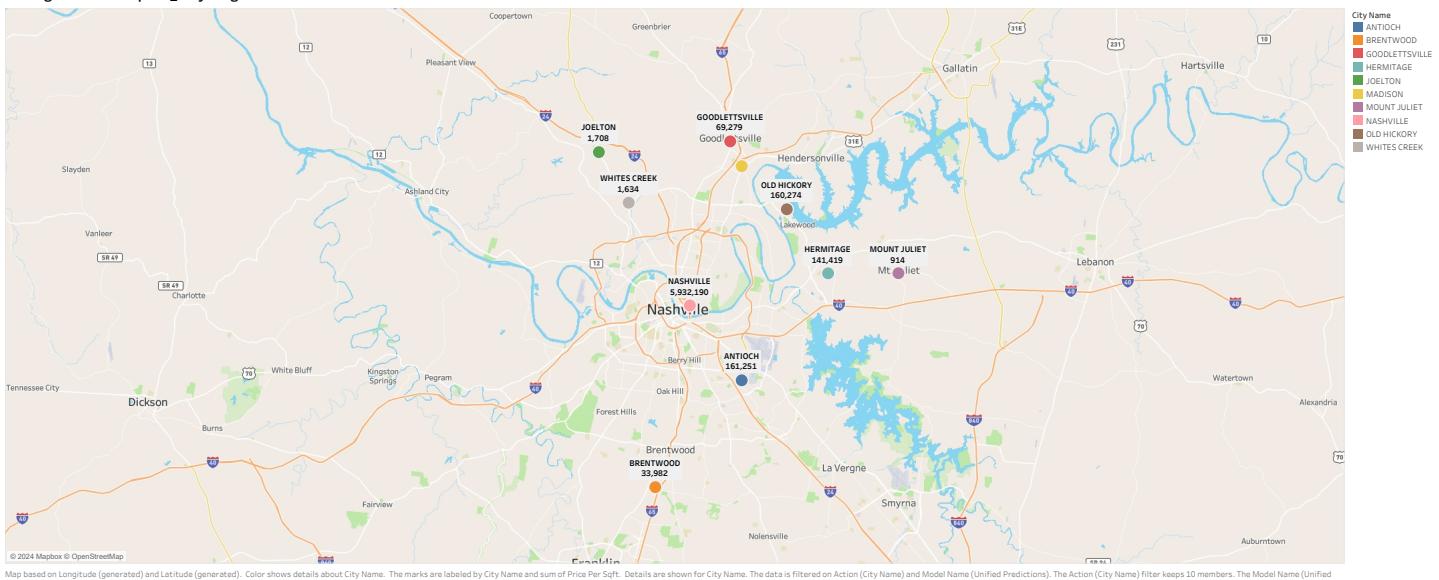
Average of Sale Price for each City Name. Color shows details about City Name. The marks are labeled by average of ANN Predicted Sale Price. The data is filtered on Model Name (Unified Predictions), which keeps multiple members. The view is filtered on City Name, which keeps 10 of 10 members.

### Average Price Per Square\_ft by Year Built

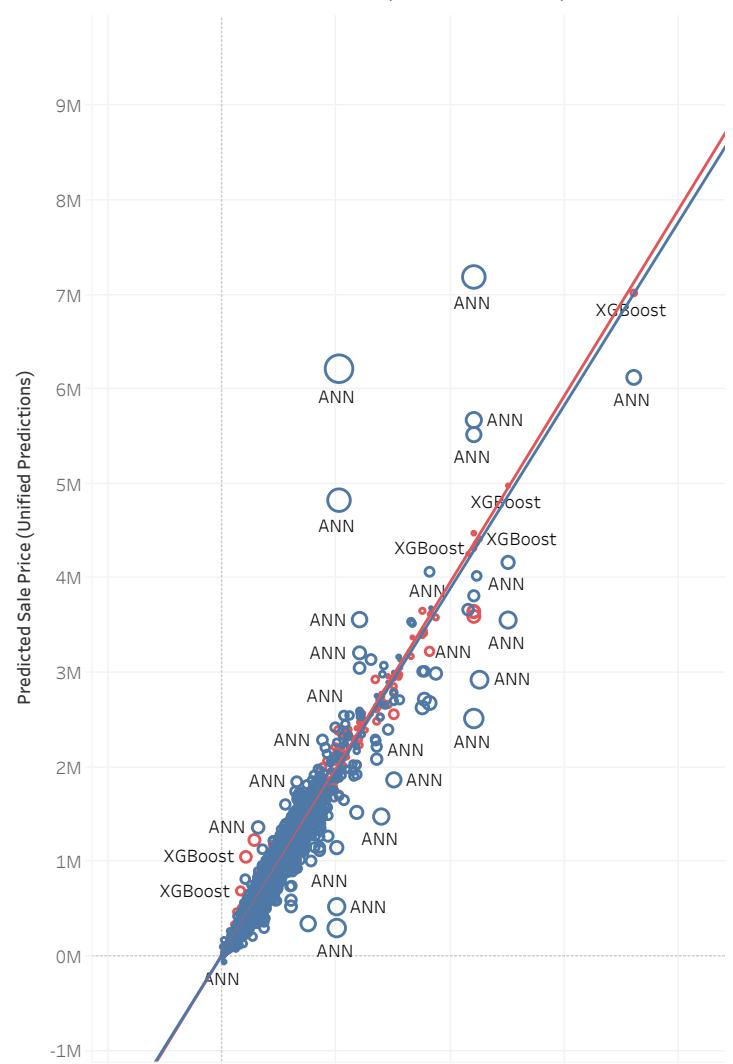


The trend of average of Price Per Sqft for Year Built. The marks are labeled by maximum of Age. The data is filtered on Action (City Name) and Model Name (Unified Predictions). The Action (City Name) filter keeps 10 members. The Model Name (Unified Predictions) filter keeps multiple members.

### Average Price Per Square\_ft by Neighborhood



## Actual vs. Predicted Prices (Scatter Plot)

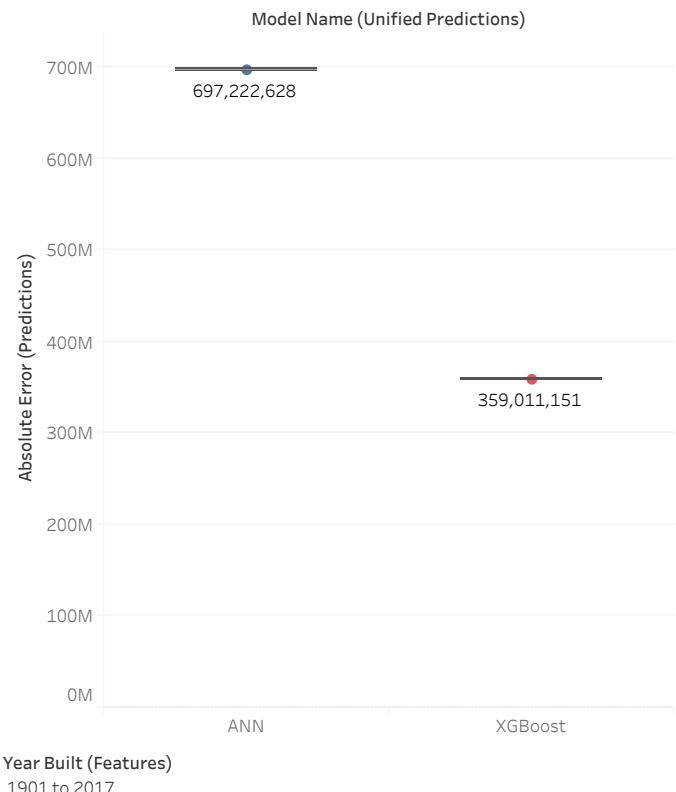


Model Name (Unified Predictions)

- ANN
- XGBoost

Year Built (Features)  
1901 to 2017

## Prediction Error Distribution (Bar Chart)



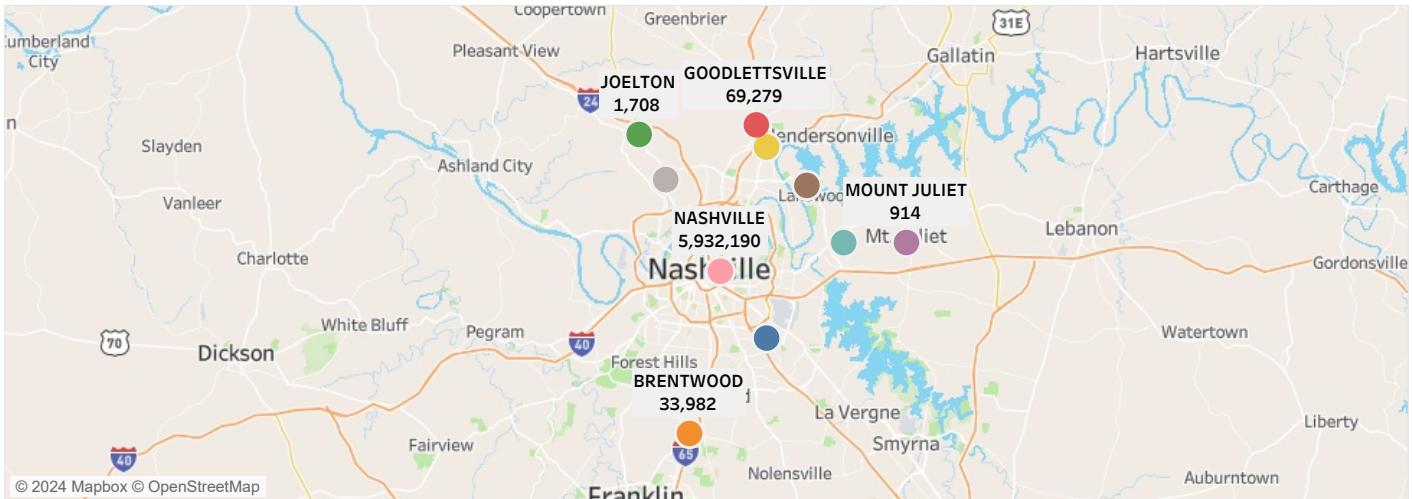
Model Name (Unified Predictions)

697,222,628

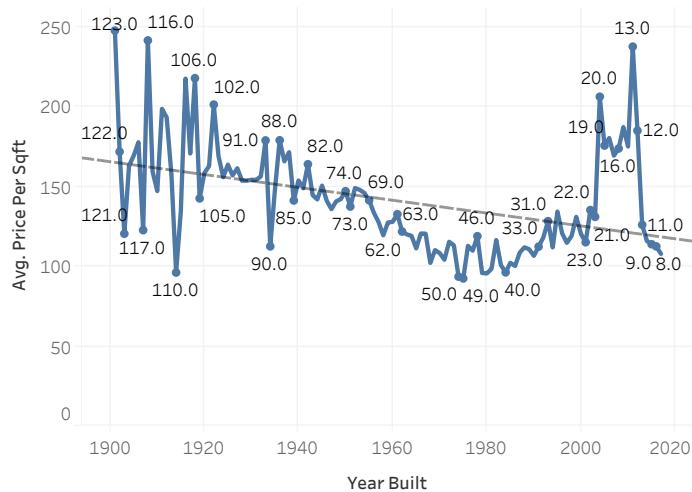
359,011,151

Absolute Error (Predictions)  
Year Built (Features)  
1901 to 2017

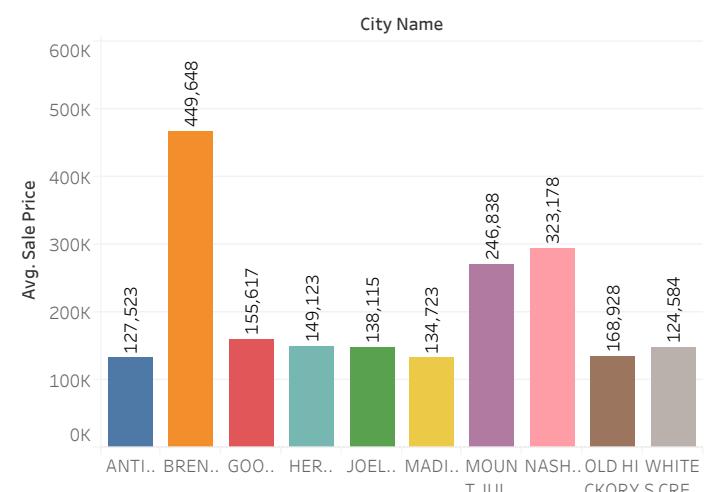
## Average Price Per Square\_ft by Neighborhood



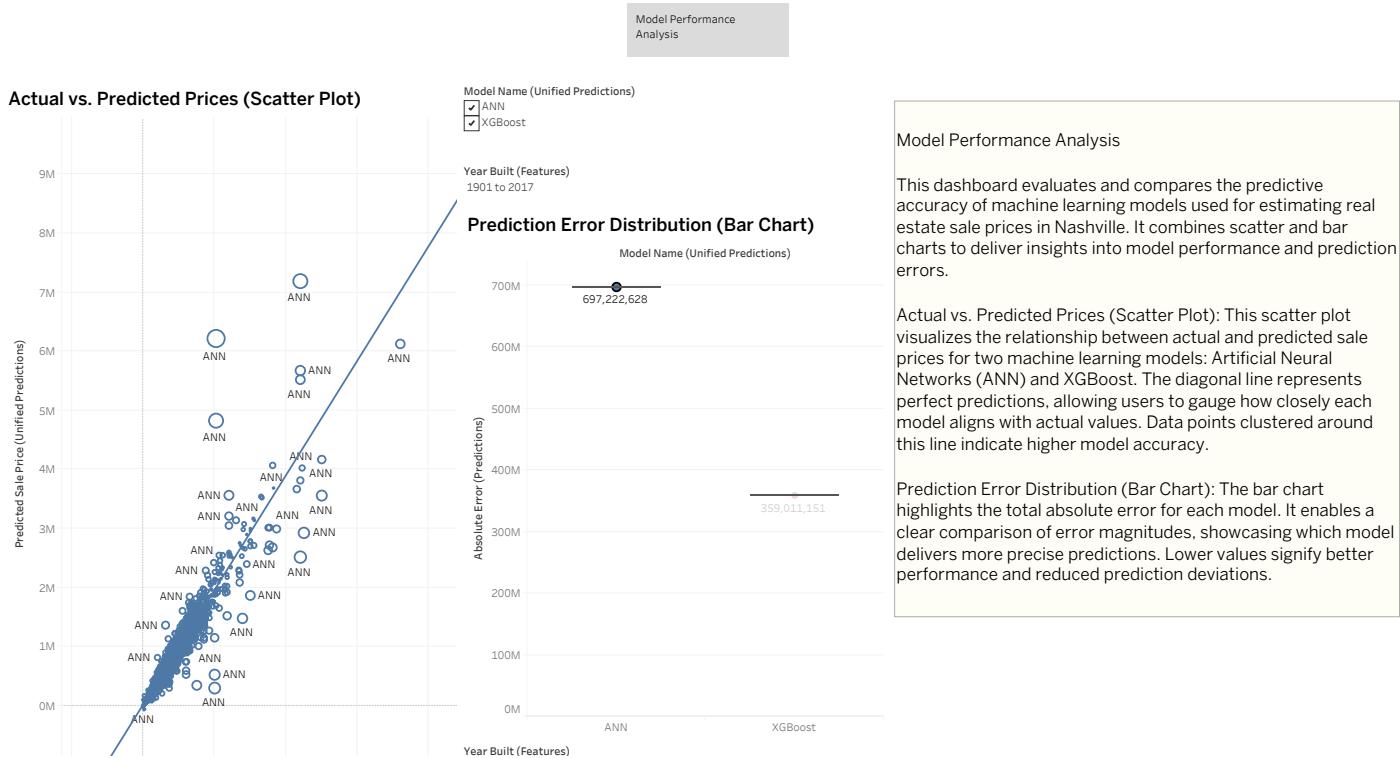
## Average Price Per Square\_ft by Year Built

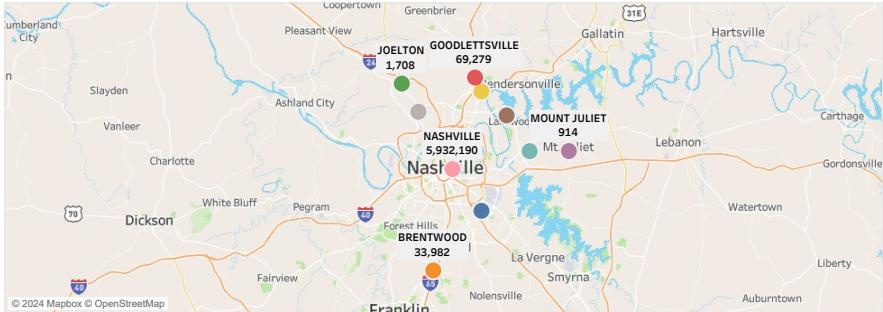
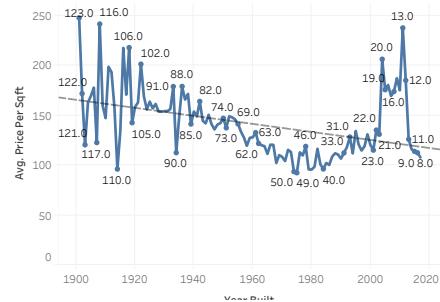
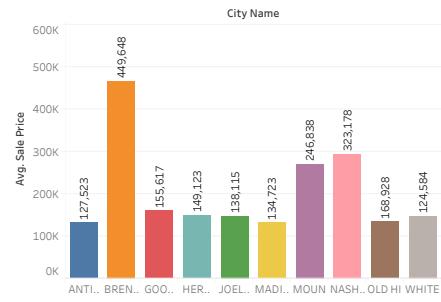


## Average Sale Price by Neighborhood



## Story 1



**Average Price Per Square\_ft by Neighborhood****Average Price Per Square\_ft by Year Built****Average Sale Price by Neighborhood****Interactive Real Estate Dashboard**

This dashboard provides a detailed, interactive view of real estate trends in the Nashville area, enabling users to explore data at both neighborhood and property levels. Designed for real estate professionals and analysts, it integrates dynamic interactions to enhance usability and insights.

**Average Price Per Square Foot by Neighborhood (Map):**

An interactive map visualizes the average price per square foot across neighborhoods, with bubble sizes proportional to the number of properties analyzed. Users can quickly identify high-value and emerging areas by clicking on specific neighborhoods.

**Average Price Per Square Foot by Year Built (Line Chart):**

This chart shows the evolution of average price per square foot over time, segmented by the year properties were built. The trendline highlights patterns in construction value and market shifts. The chart updates dynamically when a neighborhood is selected on the map or bar chart.

**Average Sale Price by Neighborhood (Bar Chart):**

A bar chart compares the average sale prices across neighborhoods, allowing users to rank areas based on property value. By clicking on a neighborhood bar, users can filter the other charts and map to view detailed statistics for the selected area.