



# *PREDICTING HOUSE PRICES USING ADVANCED REGRESSION TECHNIQUES*

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Introduction

Exploratory Data analysis

Linear Regression Model

Business recommendation

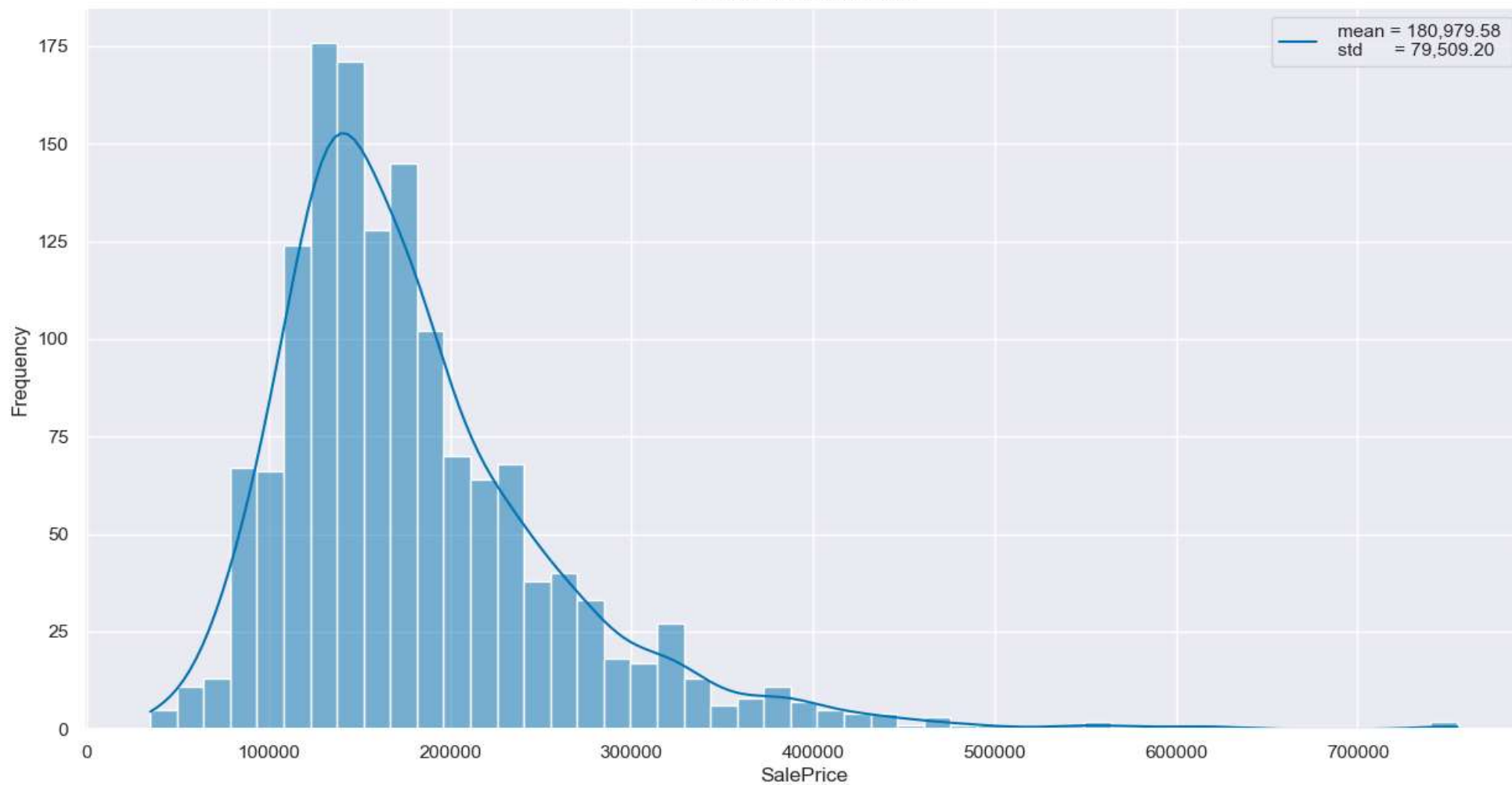
The background of the slide features several thin, light brown lines that intersect to form a series of irregular, abstract geometric shapes. These lines are positioned around the central text, creating a modern and minimalist aesthetic.

## **INTRODUCTION:**

*THE REAL ESTATE MARKET IS COMPLEX AND EVER-CHANGING, WITH VARIOUS FACTORS IMPACTING HOME PRICES. ACCURATELY PREDICTING THESE PRICES IS ESSENTIAL FOR BUYERS, SELLERS, REAL ESTATE AGENTS, AND INVESTORS. THE HOUSE PRICE PREDICTION MODEL IS DESIGNED TO OFFER RELIABLE PRICE ESTIMATES BASED ON A COMPREHENSIVE SET OF FEATURES, ENABLING REAL ESTATE COMPANIES TO ACCURATELY VALUE PROPERTIES FOR SALE.*

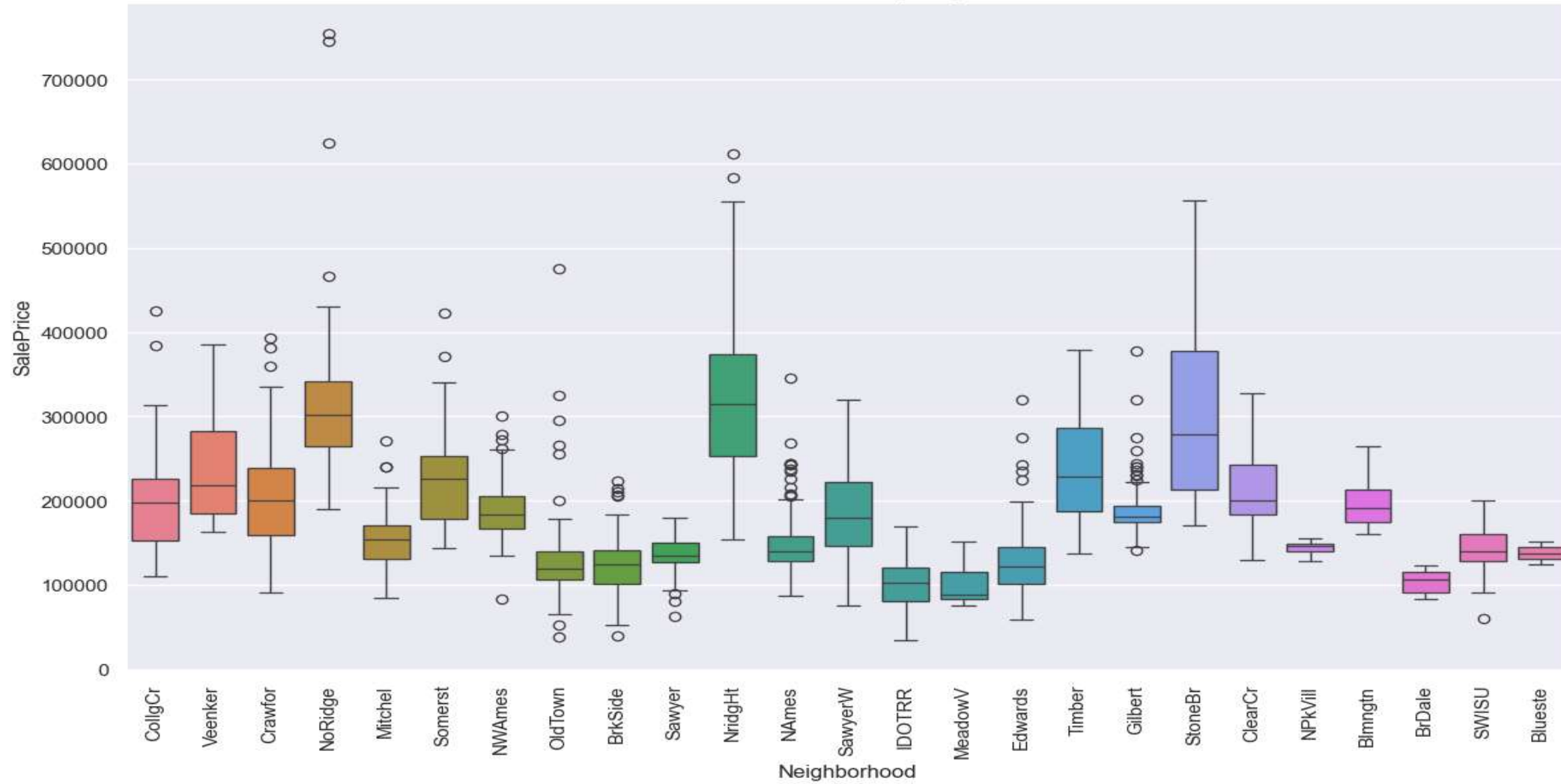
# *TARGET VARIABLE*

Distribution of Sale Price

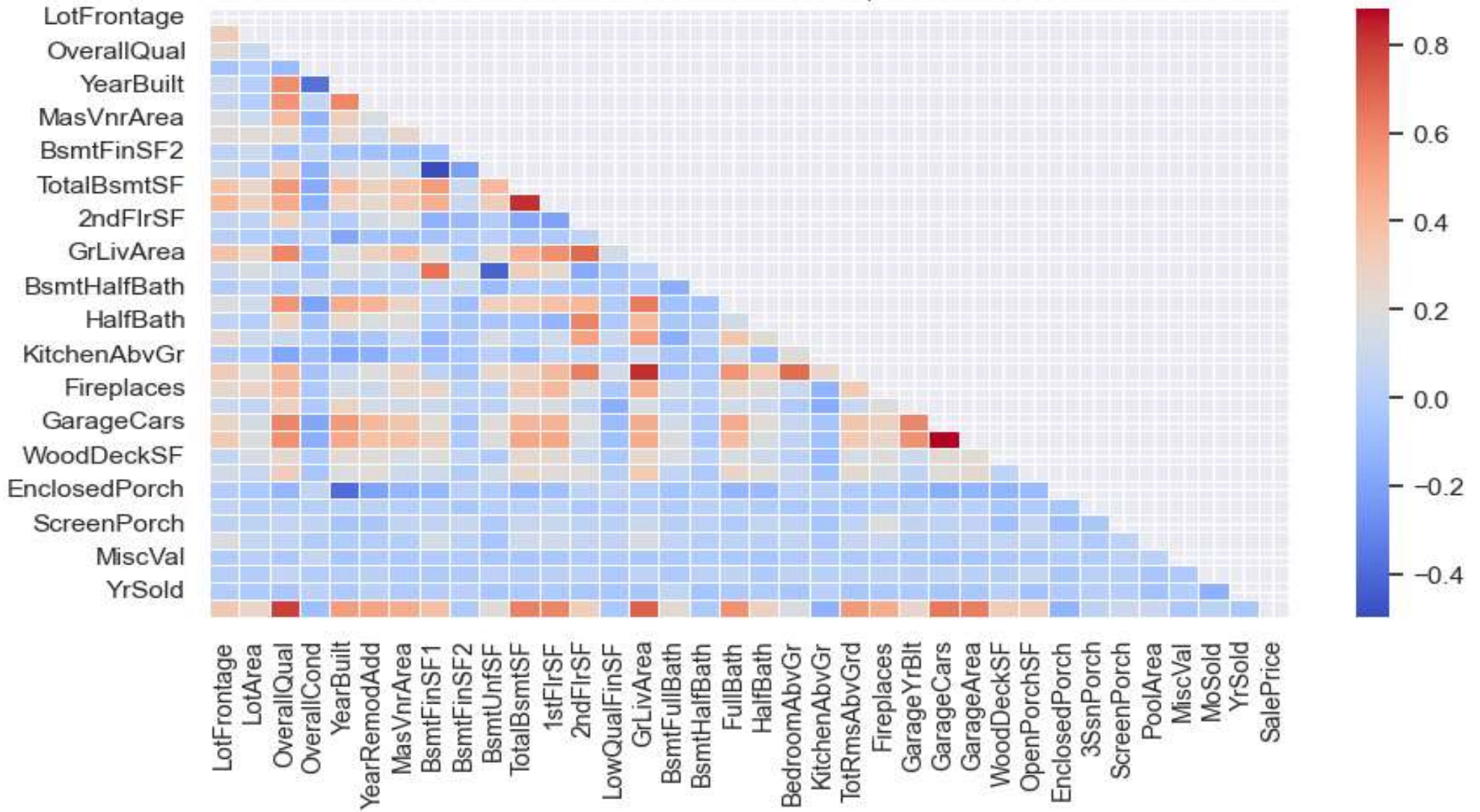


# FEATURES'

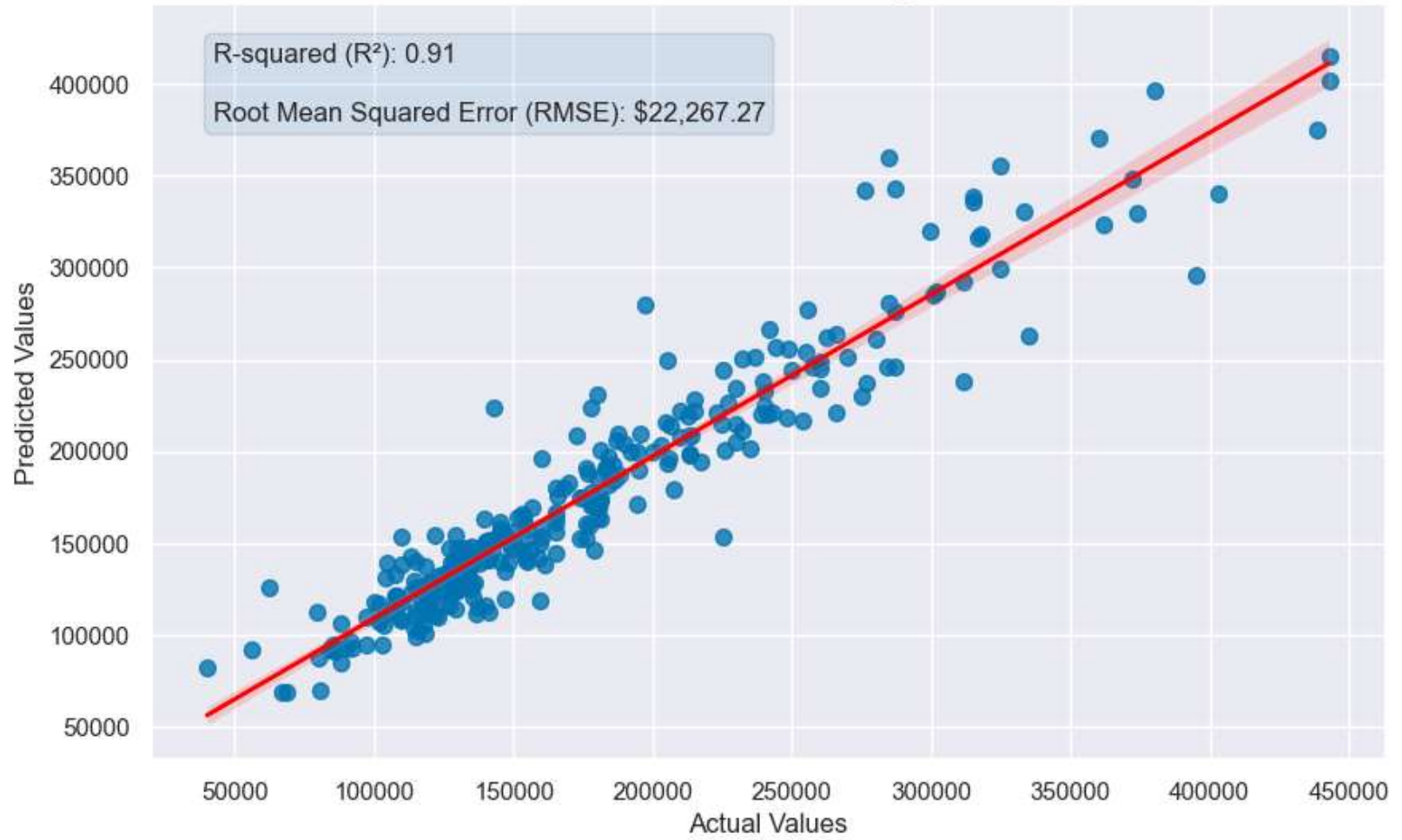
Distribution of Sale Price by Neighborhood



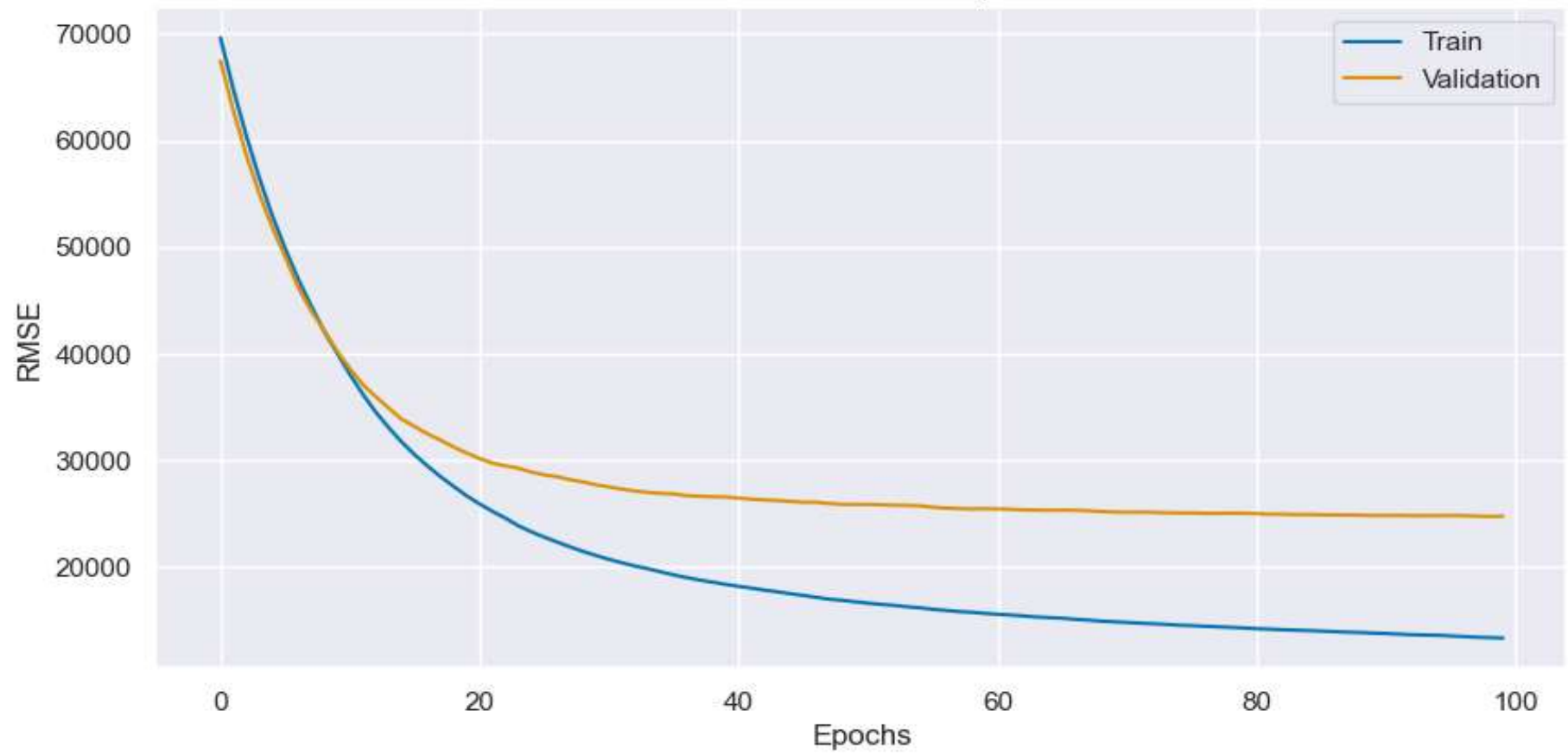




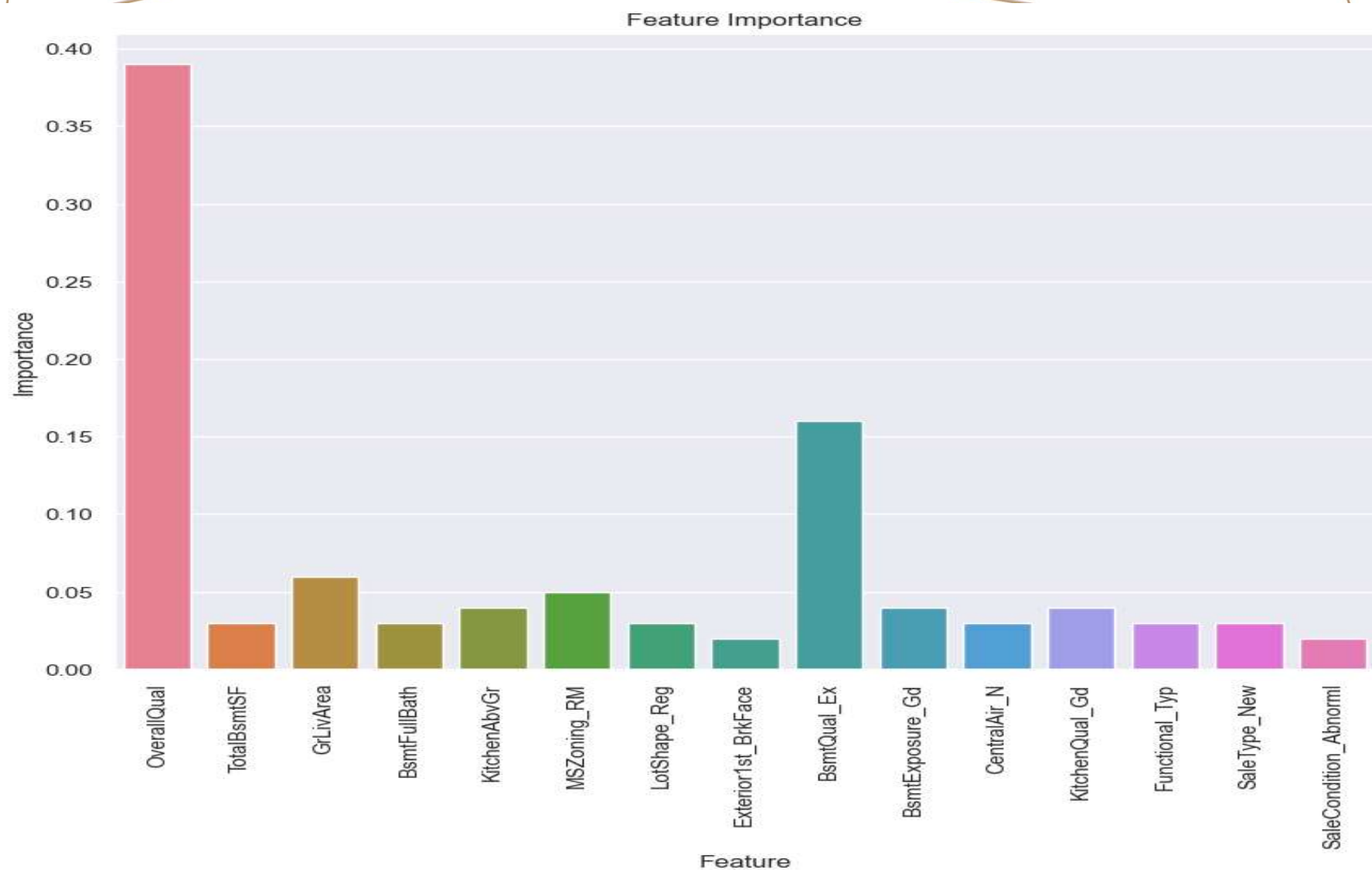
Actual vs. Predicted Values with Regression Line



XGBoost RMSE Over Epochs







The image features a minimalist design with several thin, brown lines in the corners. On the left, two lines intersect to form a partial frame. On the right, three lines intersect to form another partial frame. These lines are positioned such that they appear to be part of larger, unseen geometric shapes.

*THANK YOU*