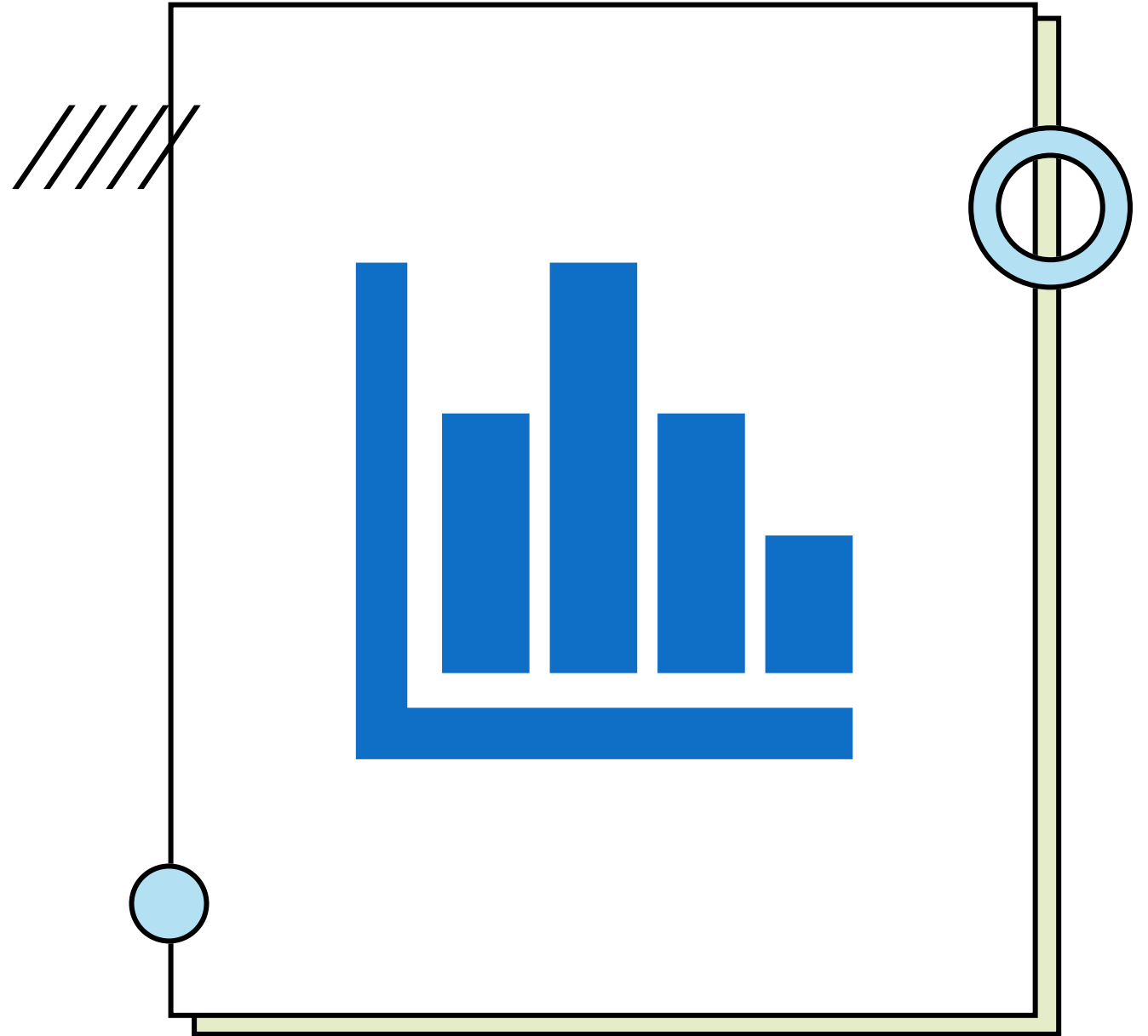
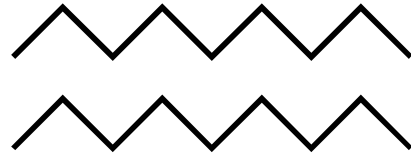


Creating an Algorithm to predict house pricing

Analysis and Interpretation by Leticia Fernandes





Business Problem

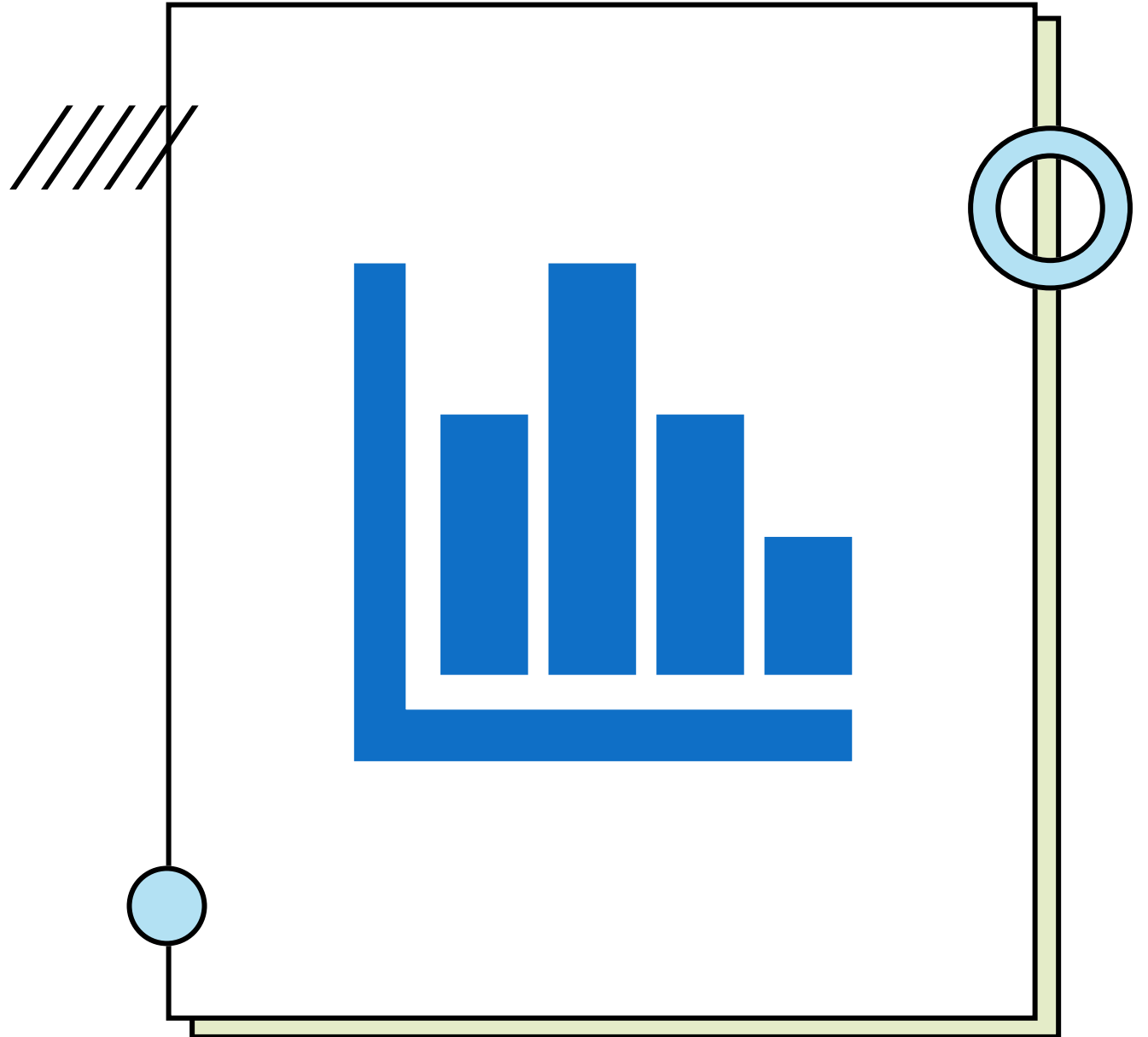
- Help a startup company to predict house prices in the King county region to compete with Zillow in the consumer information marketing business.



Summary

Create an Algorithm to predict prices on properties in King county. Noted important factors included:

- Zip Code,
- Sqft
- Grade (Condition)
- Renovated



Data

Data provide by Flatiron School corresponding zip codes taken from King County Open Data Source.

Our variables include:

- View;
- Waterfront;
- Number of Bedrooms;
- Number of Bathrooms,
- SQFT living;
- Grade (condition);
- Year Built;
- Renovated, etc.



Modeling and Methods

- Linear Regression - OLS model
- Baseline Model
- Log Transformation
- R^2
- Dummy variables

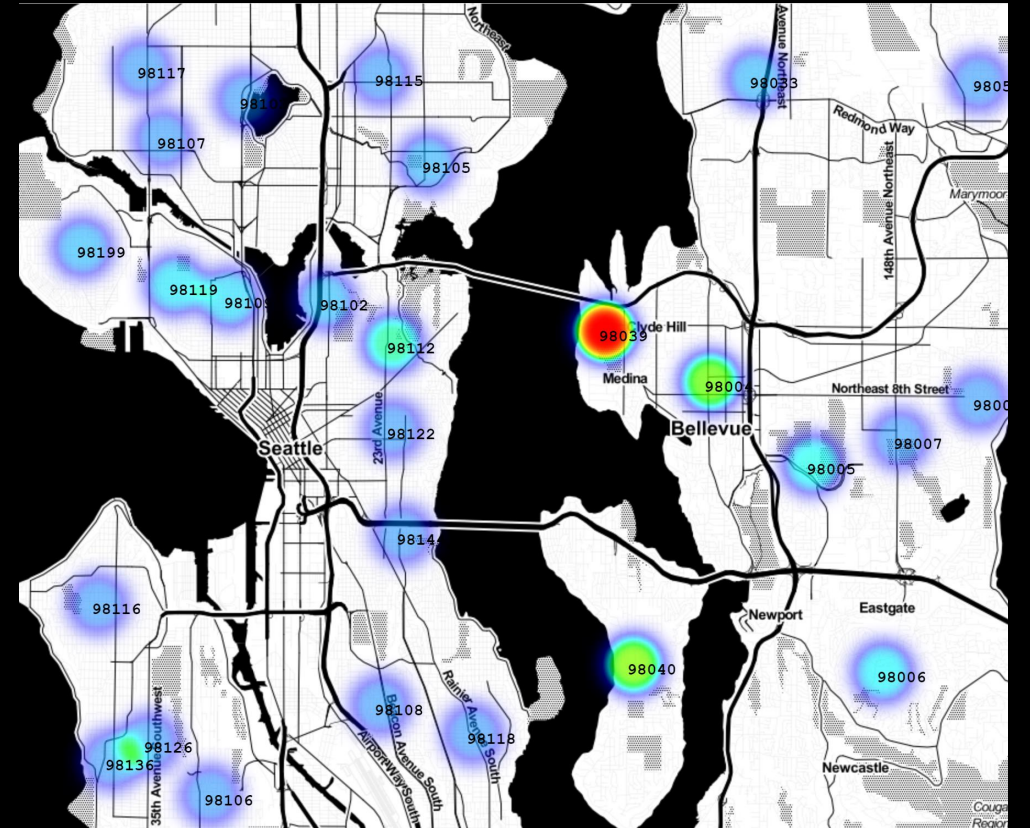


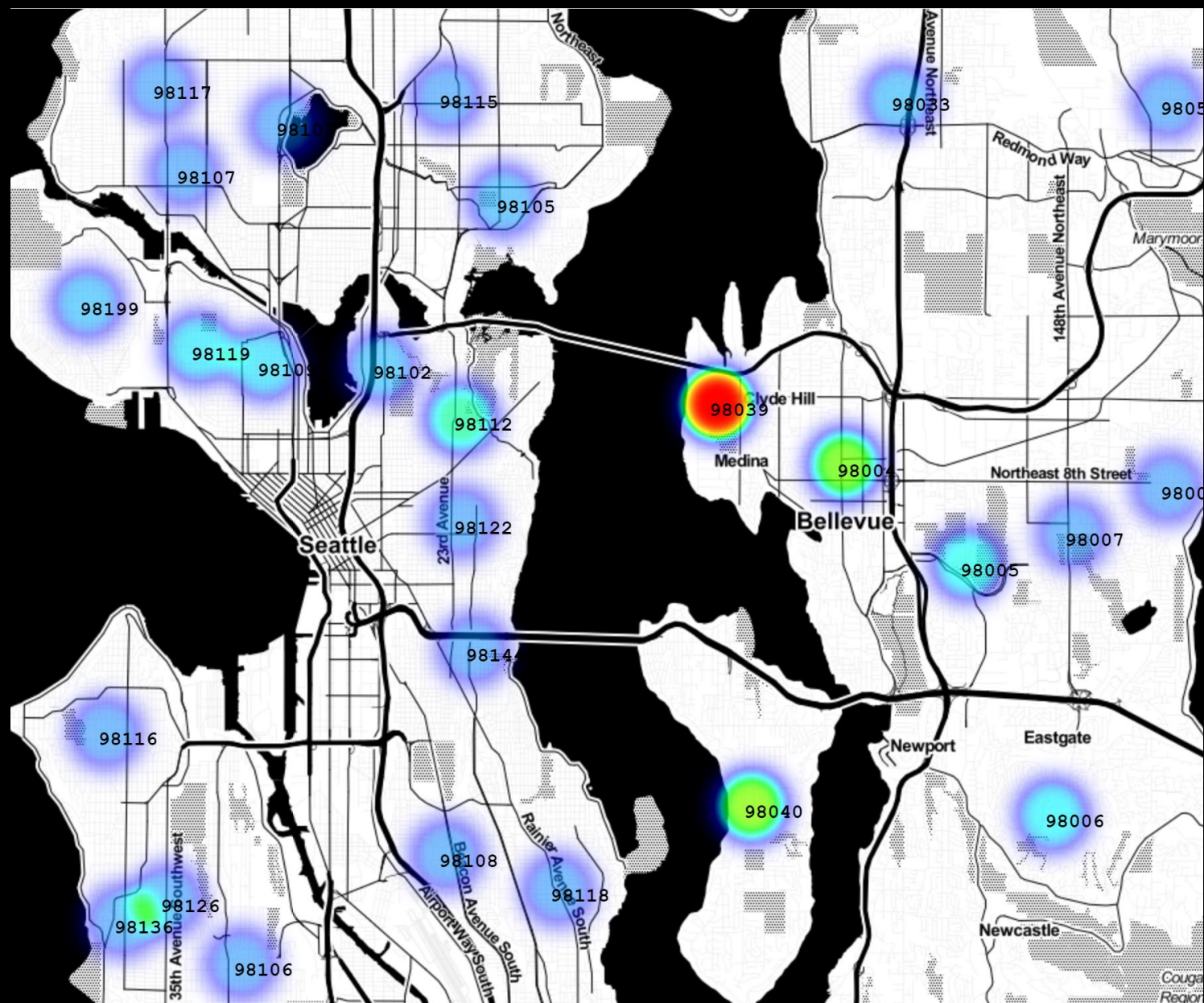
Results

Important parameters in the model, as:

- Waterfront properties;
- Centrally located;
- Zip code

proved increase prices significantly.





Technical Results

- R^2 final model
0 . 8 2 6
- Train RMSE
 - \$ 117,768 . 73
- Test RMSE
 - \$ 117,182 . 99

Future Work

To better predict prices:

- Larger, recent, accurate data.
- More parameters.

Thank you!

Leticia Fernandes

