# **House Price Prediction in Atlanta**

Zichen Wang, Wenqing Shen, Yixing Li, Dong Gao, Xiangyi Yan, Shahrokh Shahi

Group 03 from CSE 6242

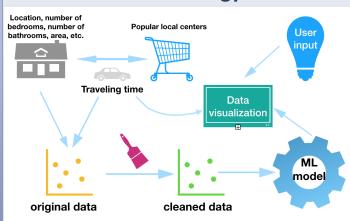


They need home in Hotlanta!

#### Objective:

Machine learning-based interactive price estima-tion and visualization tool

## Methodology



Random forest, neural network, SVC, ridge regre-ssion and linear regression are tested

$$Score(y_i, y_{predict}) = 1 - \frac{1}{n} \sum_{i=1}^{n} \left| \frac{y_i - y_{predict}}{y_i} \right|$$

Random forest has the best score of 0.8

Front end uses HTML, CSS, js, d3 and employs Google Map

Back end uses Flask to coordinate frond end and back end

### **Data**

We use data from Zillow of houses that are either on sell or sold within three months in Atlanta

Data is cleaned through OpenRefine

Post-processing program estimate distance from house to selected local centers

### **Interactive Data Visualization**

