

Prediction of real estate property prices in Montreal



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Prediction Questions

1. Predict the selling price of properties

Motivations: Suggest appropriate

- Selling prices for the sellers
- Buying prices for the buyers

2. Predict the Montreal borough that the property is most likely to belong to

Motivation: Suggest buying locations for buyers depending on their circumstances

Data sets

1. Property listings in Montreal from real estate website

- The targets: Prices
- The features: Location, Size, Property type, etc.

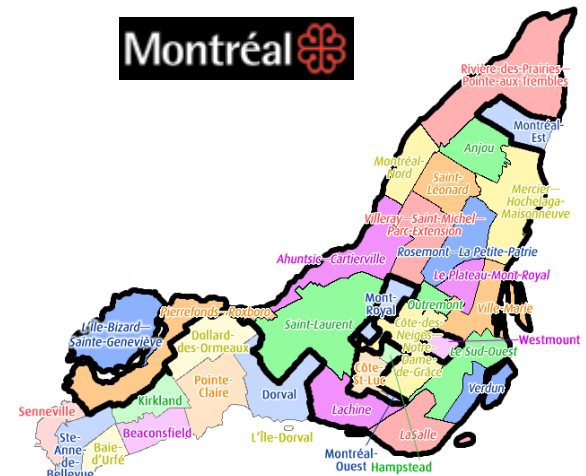


Additional demographics from Statistics Canada

- Income, Population age, Household size, etc.

2. Bounding polygons from Montreal Open Data

- The labels: Montreal boroughs
- The features: same as above



Machine learning methods

1. **Regression** of the prices

Linear and logistic regressions

k-Nearest Neighbours

2. **Classification** of the boroughs

Supervised:

Logistic regressions

k-Nearest Neighbours

SVM

Neural Networks

Un-supervised:

k-Means

Preliminary Results

1. **Regression** analysis of the prices
Location accounts for variance in price

Future directions

Incorporate data from Statistics Canada based on the defined Montreal boroughs