

Final Project: predicting the growth & change of Boston real estate market

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1: What are we working?

This project is specifically oriented to predict the change of Boston's real estate market in the future by learning this region's past. We will incorporate machine learning into the process of predicting housing prices.

2: What are the data sources?

The data source will come from the real estate resources provided by the state government.

3: what are the training algorithms?

For now, we are using generalized linear models such as the least squares to compare the pricing of the houses with different conditions. As time progressed, we will incorporate more and more sophisticated data learning methods to meet our needs.

4: what will the visualization look like?

The visualization will take in many forms: bars, lines, charts, etc. They can be customized by the users as they wish.

5: what are our project plans?

Week 3: starting the basis of the application: making algorithm tests.

Annie: Building the backbone of the program (make sure that the hardware runs properly)

Jessica: Programming the algorithm (using all 3 computers)

Bill: Test the efficacy of different algorithms, making sure that we use the most efficient algorithm (least amount of memory storage for learning and has the max depth).

Week 4: Server development

Annie: Importing the data to the server

Jessica: Developing the server (hardware-wise)

Bill: Building the server environment and making sure that everything works.

Week 5: Web development

Annie: coding the web interface

Jessica: designing the website.

Bill: maintaining the website (make sure that the server and the website fits properly)

Week 6: Finalizing Application

Annie: building the link between app, web, and server

Jessica: importing the data between app, web, and server

Bill: Programming the application and publishing it.