House Prices: Advanced Classification Techniques

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Abstract

Now a days house resale is majorly seen in metro cities. The market demand for housing is always increasing every year due to increase in population and migrating to other cities for their financial purpose. Prediction of house resale price for long-term temporary basis is important especially for the people who stays who will stay the long time period but not permanent and the people who do not want to take any risk during the house construction. In this paper, the resale price prediction of the house is done using different classification algorithms like Logistic regression, Decision tree, Naive Bayes and Random forest is used and we use AdaBoost algorithm for boosting up the weak learners to strong learners. Several factors that are affecting the house resale price includes the physical attributes, location as well as several economic factors persuading at that time. Here we consider accuracy as the performance metrics for different datasets and these algorithms are applied and compared to discover the most appropriate method that can be used the reference for determining the resale price by the sellers. Index Terms—House Resale Price, Prediction, Random Forest, AdaBoost, Naïve Bayes.

Paraphase

Contents

Chapter 1

Introduction

The value of a home is well known as a combination of a large variety of options. Therefore, the prediction of home price presents a novel set of challenges. Though an oversized variety of space units are dedicated to the present task, their performance and applications are restricted by a really long delay within the handling of data, the dearth of real-world settings and so the inadequacy of choices for housing. Our aim is to predict the value of the house marketing mistreatment classification techniques during this paper. Most of the present studies have concentrated on breakdown the distraction of the prediction of house costs. Several theories are born as an outcome of the analysis work committed by completely different researchers around the world. This paper picks up the most recent prediction analysis to assist economic predictors to use it. It provides a summary of the prediction markets and, together, the present markets that build it easier to predict the market.

gioi thieu ve bai toan

Chapter 2

Related work

cac bai toan, paper lien quan

gioi thieu cac bai toan lien quan

Chapter 3

Algorithms

3.1 Naive bayer

Cong thuc naive bayer dua tren ly thuyet xac suat

3.2 Decision Tree

Cay quyet dinh - mot mo hinh dua ra quyet dinh dua tren information gain

3.3 Logistic Regression

Mot thuat toan machine learning

3.4 Multi Layer Perception

Mot mo hinh neural network

Chapter 4

Result on Kaggle Dataset

noi ve dataset

chaper nay de noi ve ket qua training va data set

Chapter 5

Conclusion

ket luan ve bai tona