



Name Of The Project: HOUSING: PRICE PREDICTION

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ACKNOWLEDGMENT

This includes mentioning of all the references, research papers, data sources, professionals and other resources that helped you and guided you in completion of the project.

INTRODUCTION

Houses are one of the necessary need of each and every person around the globe and therefore housing and real estate market is one of the markets which is one of the major contributors in the world's economy. It is a very large market and there are various companies working in the domain. Data science comes as a very important tool to solve problems in the domain to help the companies increase their overall revenue, profits, improving their marketing strategies and focusing on changing trends in house sales and purchases. Predictive modelling, Market mix modelling, recommendation systems are some of the machine learning techniques used for achieving the business goals for housing companies. Our problem is related to one such housing company.

Analytical Problem Framing

- **Mathematical/ Analytical Modeling of the Problem**

Describe the mathematical, statistical and analytics modelling done during this project along with the proper justification.

- **Data Sources and their formats**

What are the data sources, their origins, their formats and other details that you find necessary? They can be described here.

Provide a proper data description. You can also add a snapshot of the data.

- **Data Preprocessing Done**

What were the steps followed for the cleaning of the data? What were the assumptions done and what were the next actions steps over that?

- **Data Inputs- Logic- Output Relationships**

Describe the relationship behind the data input, its format, the logic in between and the output. Describe how the input affects the output.

- **State the set of assumptions (if any) related to the problem under consideration**

Here, you can describe any presumptions taken by you.

- **Hardware and Software Requirements and Tools Used**

Listing down the hardware and software requirements along with the tools, libraries and packages used. Describe all the software tools used along with a detailed description of tasks done with those tools.

Model/s Development and Evaluation

- 1.First importing dataset, found their shape, info, description, columns, founded null values.
- 2.Later cleaning data, finding correlation between variables, used some algorithms
- 3.Finding, scores, created models
- 4.Selecting which model is best

CONCLUSION

- 1.Keyfindings are found by using so many models
- 2.Found r^2 score of each model
- 3.Did cross validation.
- 4.Which factors affect prices are found.