

Introduction

A overview - A brief description about project.

During our's long term internship in Arcoit Bridge on Data Analysis in vertical internship we have given a project to develop a web application. It is an application project that is hosted on a remote server and delivered over the internet through we are instructed to do a Comprehension analysis on a data given to us to analysis we have to Create unique visualization to provide dashboard and Army based on our analysis to Create a web app by using HTML Code and done web integration.

our taken project to Create an web application on basic of our analysis in our project & our project title : House price prediction in metropolitan Area of India.

House price prediction in metropolitan areas of India

Introduction:-

The housing market in metropolitan areas of India is dynamic and influenced by various factors such as demographics, economic conditions, infrastructure development, and government policies, with the rapid urbanization and increasing population in this area.

This research will leverage historical housing data including features of location, property size, neighbourhood characteristics.

The primary objective of this study

- * Data Collection and pre processing
- * Feature selection and engineering
- * Model development
- * Evaluation and validation
- * interpretation and insights

Specify the business problem:

The business problem revolves around accurately predicting house prices in metropolitan city in India. Despite the wealth of available data, the real estate market's complexity and dynamism pose challenges for potential home buyers, real estate agents, and investors in estimating property values with precision. By leveraging relevant datasets and features, stakeholders seek to develop a predictive model that offers insights into the myriad factors shaping house prices. The overarching objective is to furnish a dependable and precise predictive tool, empowering users to navigate the competitive and optimizing their returns on investment.

Literature Survey:

These references provide a solid foundation for your literature survey on house price prediction methodologies. Here's a brief overview of each study:

- * Rosen, S.(1979). "Hedonic prices and implicit markets: product differentiation in pure competition". This seminal paper introduces the concept of hedonic pricing, which involves estimating the implicit prices of individual characteristics & attributes of goods & services.
- * Gao A. (1992). "Specification and estimation": Gao's study extends Rosen's hedonic pricing framework by providing details of specification and estimation techniques.
- * Kang Y. et al (2001) understanding house price appreciation using multi source big geo data and machine learning": By leveraging diverse dataset and advanced analytical methods.

Business requirements :-

The business requirement for house price prediction in a metropolitan city in India are multifaceted and encompass several key aspects:

- * Accurate prediction model: Develop a prediction model that accurately estimates property prices by leveraging relevant datasets and employing advanced machine learning techniques.
- * Identification of key features: Identify the key features influencing house prices to provide stakeholders with actionable insights for decision making.
- * Scalability: Ensure that the solution is scalable to handle large volume of data, accommodating the dynamic nature of the real estate market in metropolitan cities.

Social & Business impact

Predicting house prices in metropolitan areas of India can have significant social and business impacts.

- * Investment opportunities: By business stakeholders such as real estate developers, investors and financial institutions, house price prediction models offer valuable insights into market trends and investment opportunities.
- * Property valuation: Homeowners, buyers, and sellers can benefit from house price prediction models by gaining a better understanding of the current and future value of properties.
- * Mitigating housing market volatility: By providing insights into the factors influencing house prices, prediction models can help mitigate the volatility of the housing market.

Dashboard:

A dashboard helps you to monitor events or activities by providing key insights and analysis about your data on one or more pages

A dashboard refers to a visual interface that provides users with an overview key information, metrics and data points relevant to a particular process, system, or business operation. Dashboard are designed to present complex information in a simplified and easily understandable format, often through charts, graphs, tables and other visual elements.

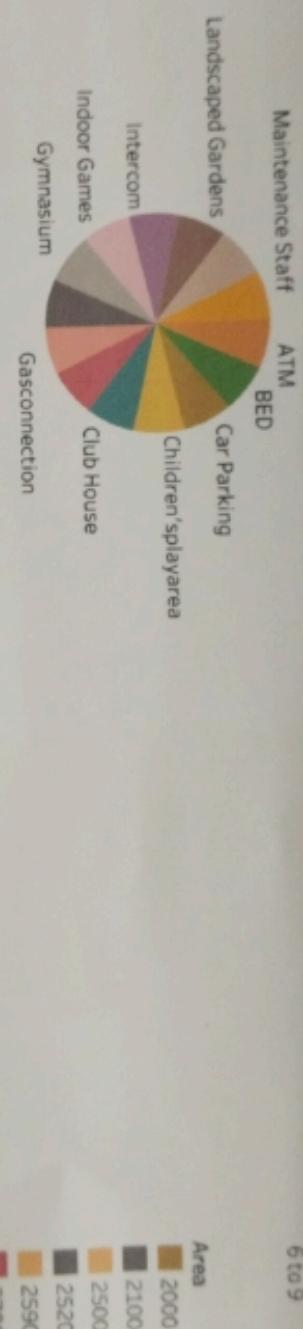
MAIN DASHBOARD

HOUSE PRICE PREDICTION IN INDIA





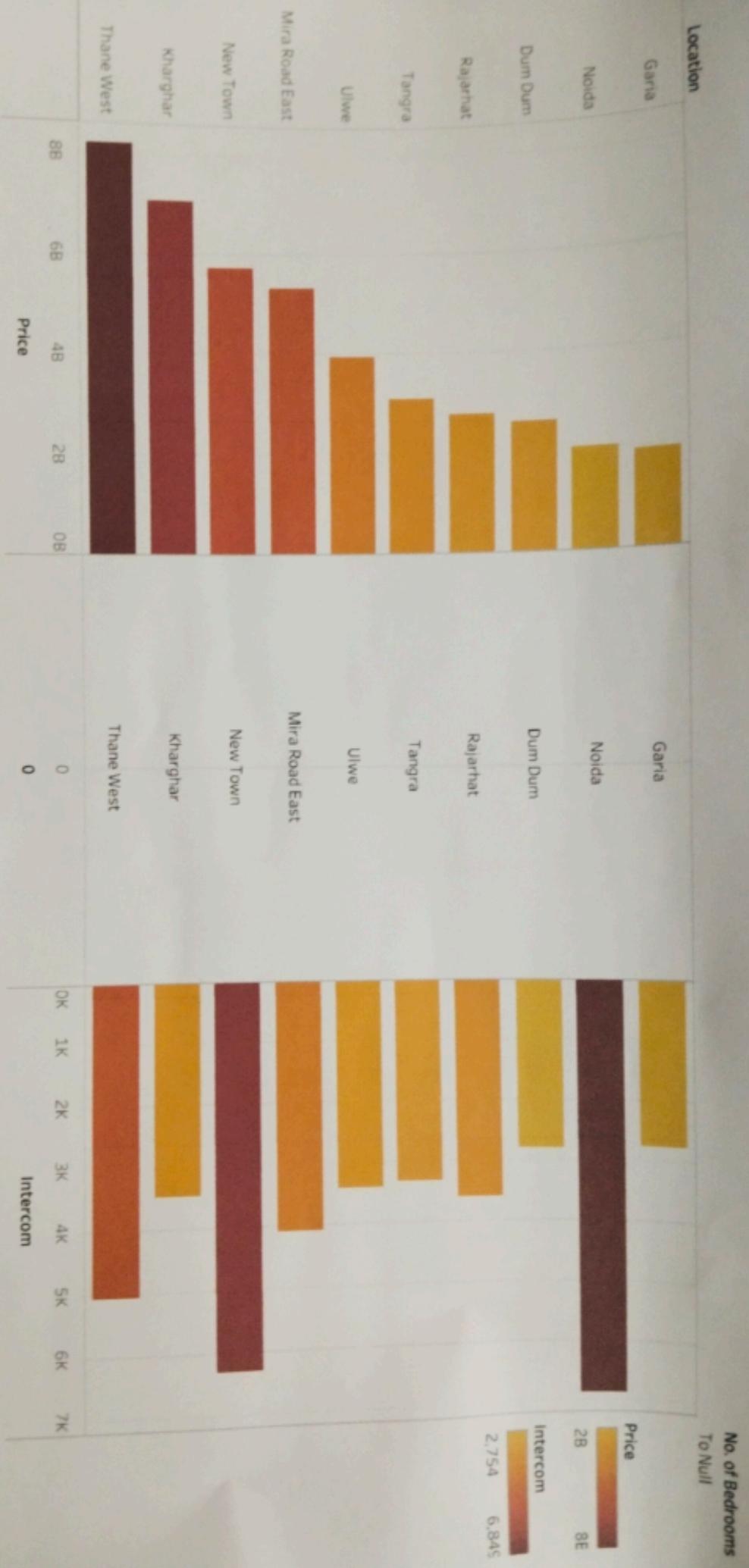
Sheet 12



Measure Values
No. of Bedrooms
6 to 9
2.925,25"

Area

2000
2100
2500
2520
2700
2590
2800
3015
3200
3300
3375
3507
3500
4000
4640
4800
5000
5500
5642



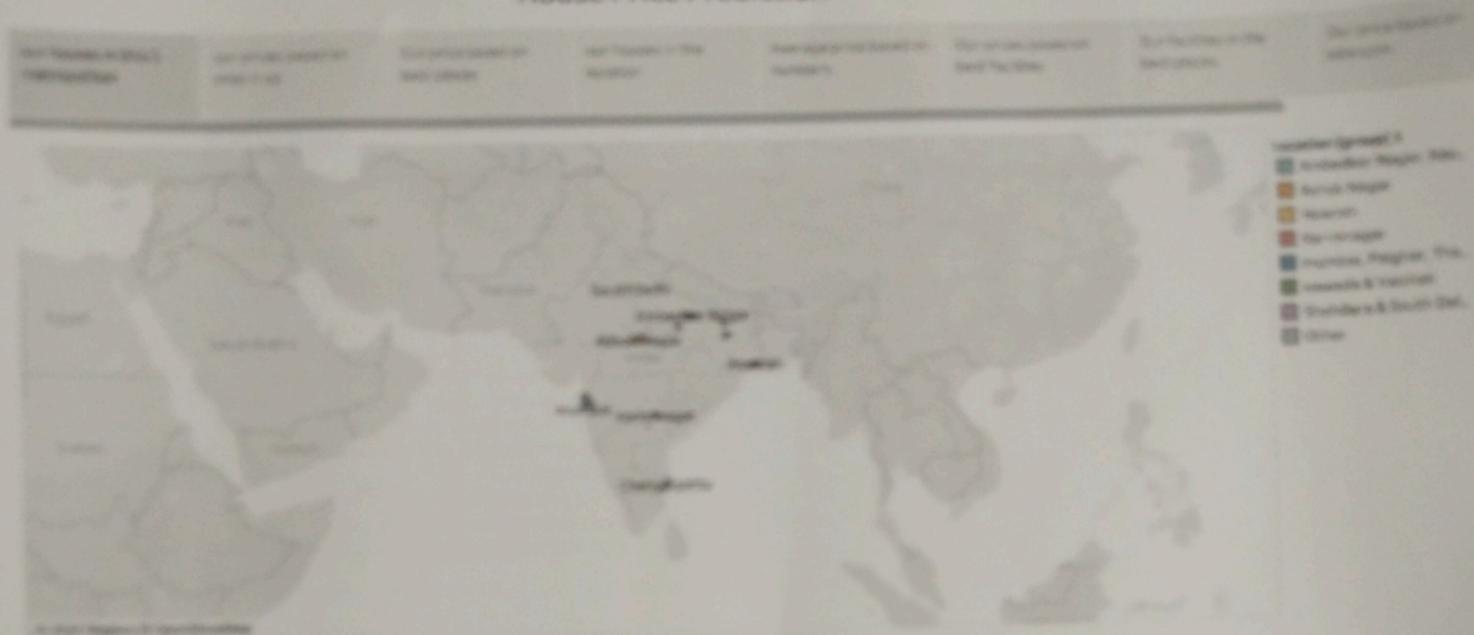
Story:

A story is a type of view. A story is composed of a set of scenes that are displayed in sequence by side to side. A story can be used to provide your data with

- o ~~Qualitative~~ ~~Analysists~~

A data analysis story is a narrative that communicates the insights, finding and implications derived from analysing a dataset of a set of data rather than simply presenting raw numbers. Rather than simply presenting raw numbers, a data analysis story aims to contextualize the data within a meaningful narrative that resonates with the audience.

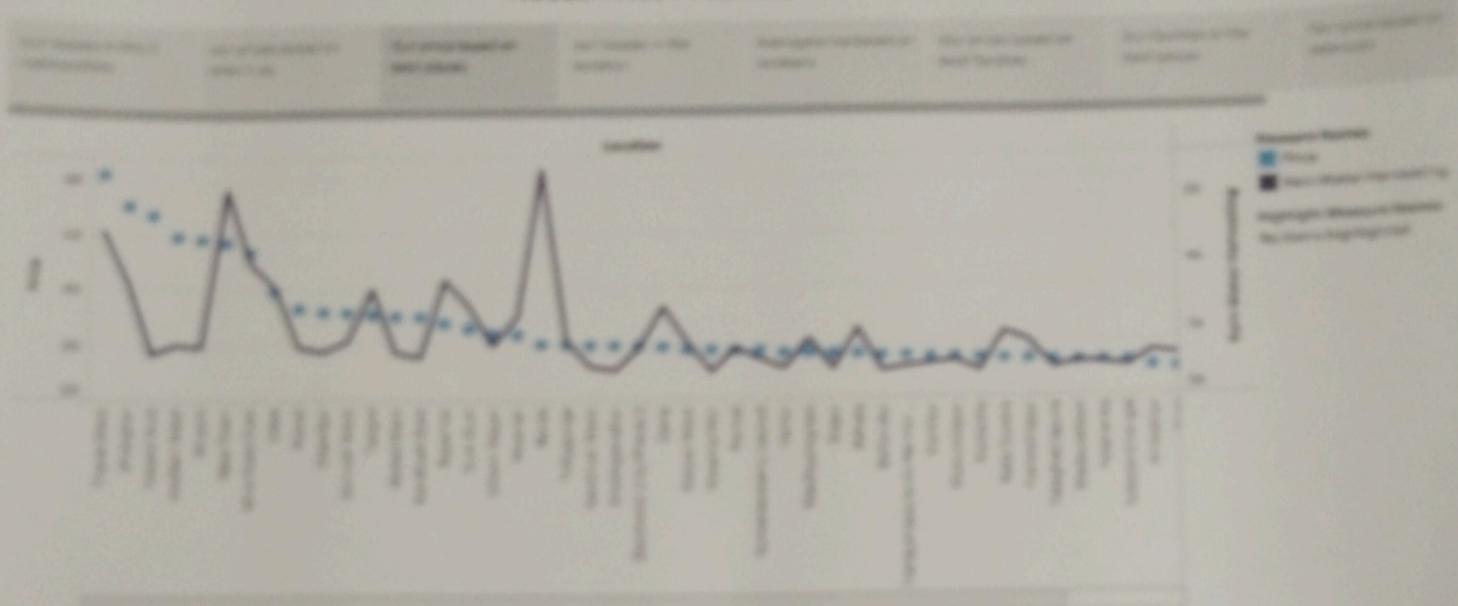
House Price Prediction



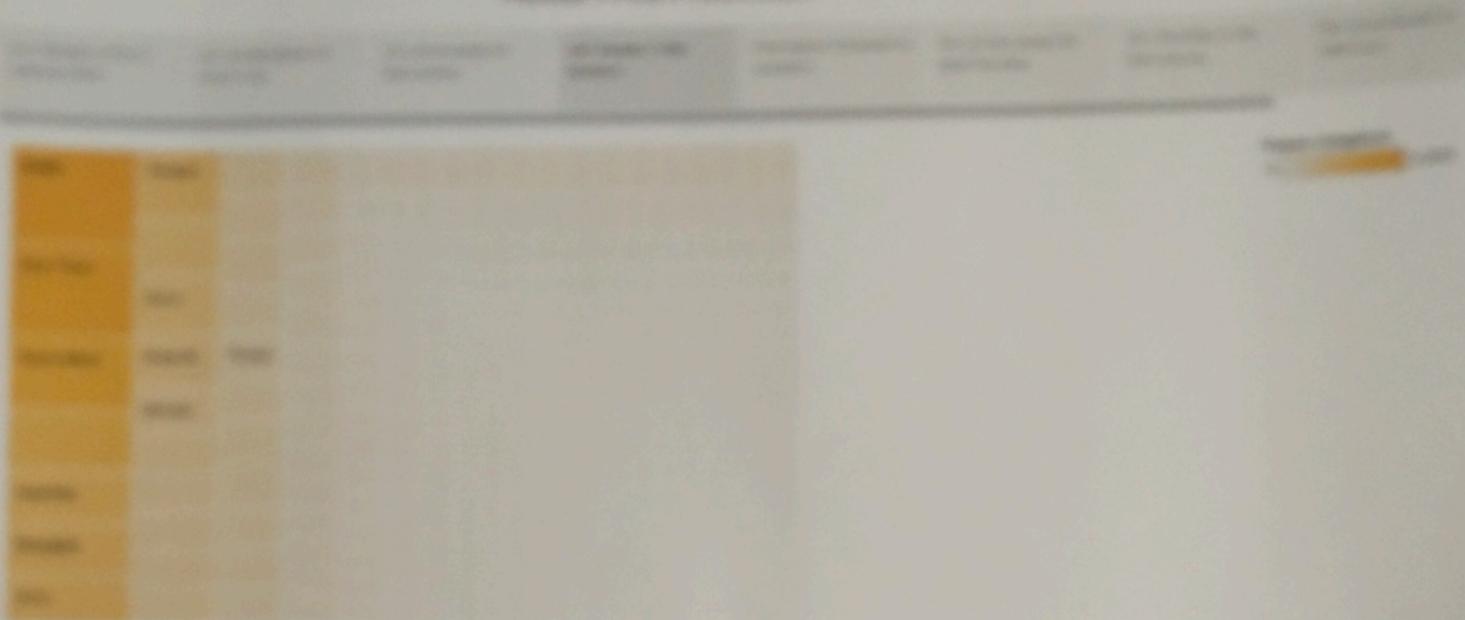
House Price Prediction



House Price Prediction

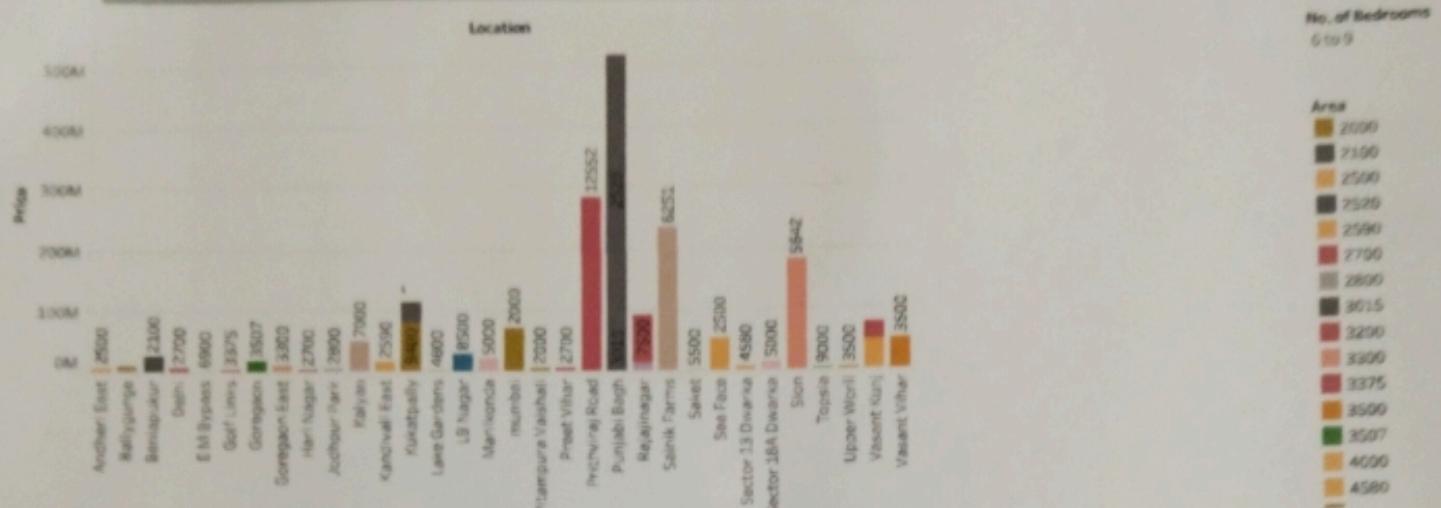


Mouse Gene Prediction

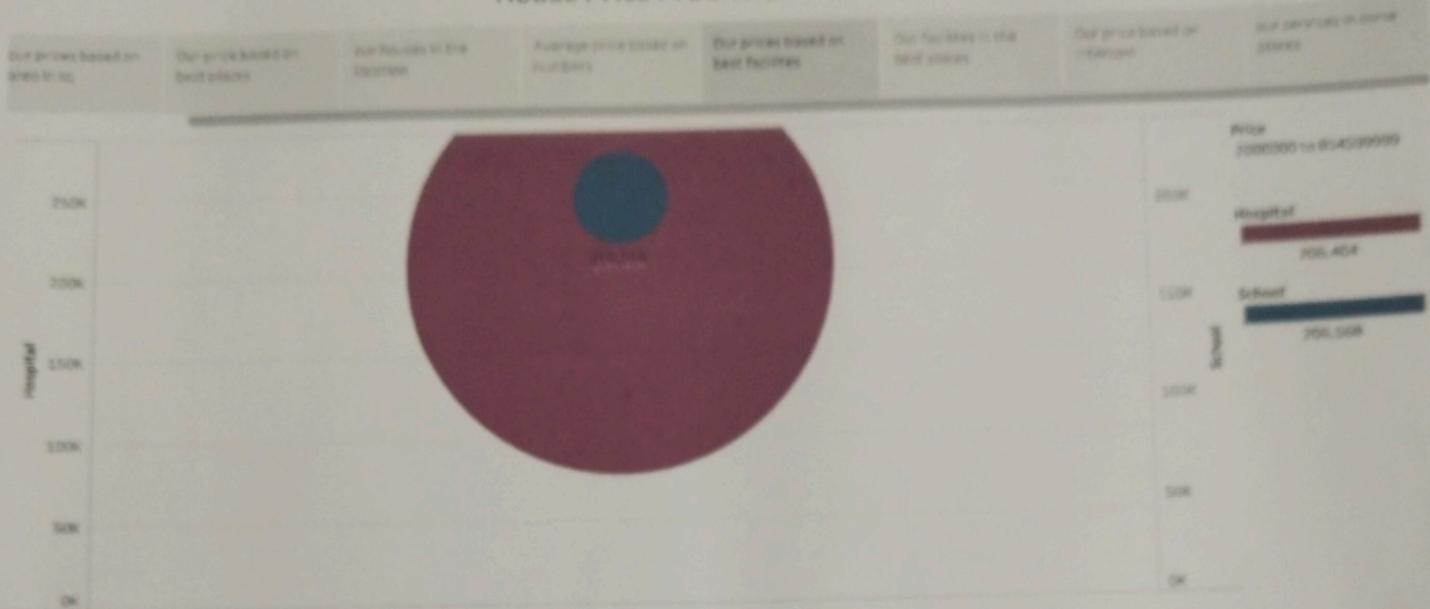


House Price Prediction

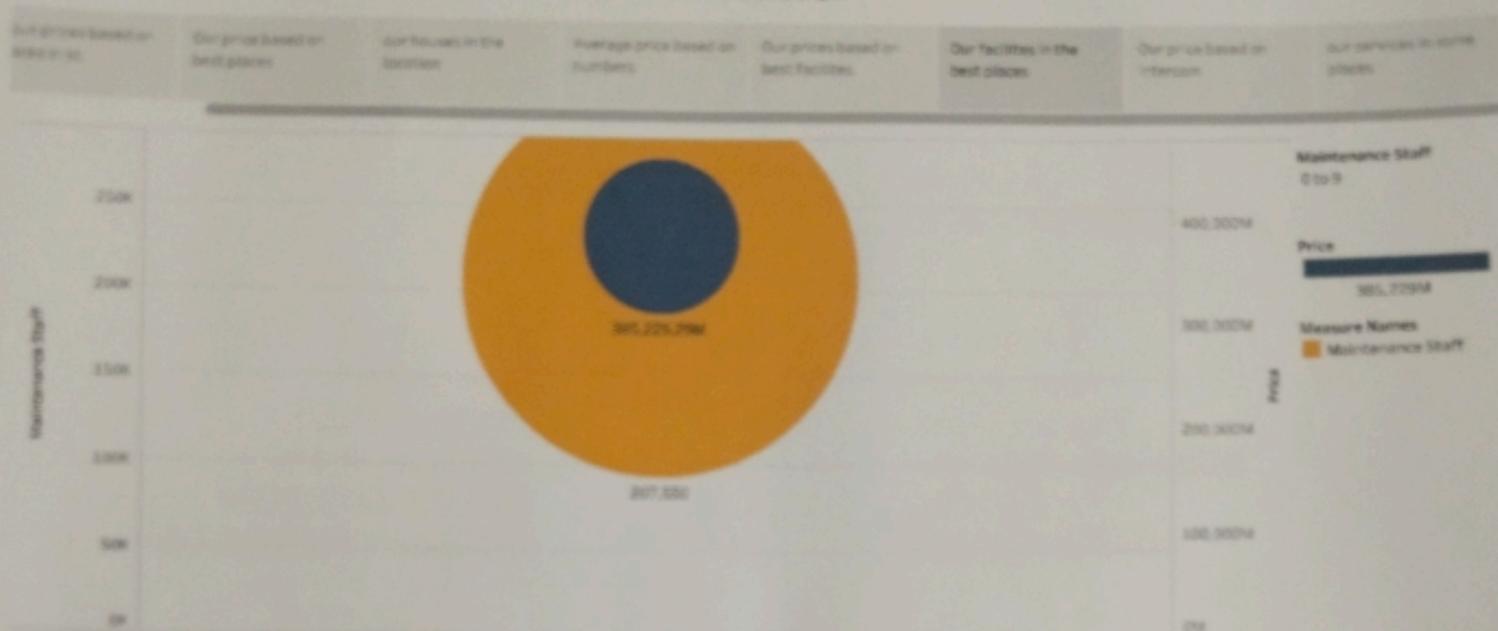
Our house.	Our prices based on area in sq	Our price based on best places	our houses in the location	Average price based on numbers	Our prices based on best facilities	Our facilities in the best places	Our price based on internet	our services).
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House Price Prediction



House Price Prediction



House Price Prediction



House Price Prediction

Our prices based on area in sqm

Our price based on best places

our houses in the location

Average price based on numbers

Our prices based on best facilities

Our facilities in the best places

Our price based on intercom

Our services in some places



Measure Values
2,925,257

Measure Names
ATM
BED
Car Parking
Children'splayarea
Club House
Dining Table
Gasconnection
Golf Course
Gymnasium
Indoor Games
Intercom
Landscaped Gardens
Lift Available
Maintenance Staff

Conclusion:-

This brings us to end to the house price prediction let us review our work . first we start by defining our problem statement , looking into the algorithms and were going to use and the regression / implement through visualization . then we move on to practical implementing the identification . we compared the performance of there Models . that proceed that it works best for house price prediction .

The key take aways from this house price prediction in development of urban areas and industries