

# PROJECT REPORT

## ➤ INTRODUCTION:

- **Overview:**

This is about creating a computer program that can guess how much a house might cost in a big city in India. It uses old information about houses that were sold, details about the houses, and where they are located to make these guesses. The program is easy to use, can be updated in real-time, and is clear about how it works. It's also good at handling a lot of information, keeps your data safe, and doesn't cost too much. This helps people who want to buy houses, real estate agents, and investors to make smarter choices in the busy real estate market.

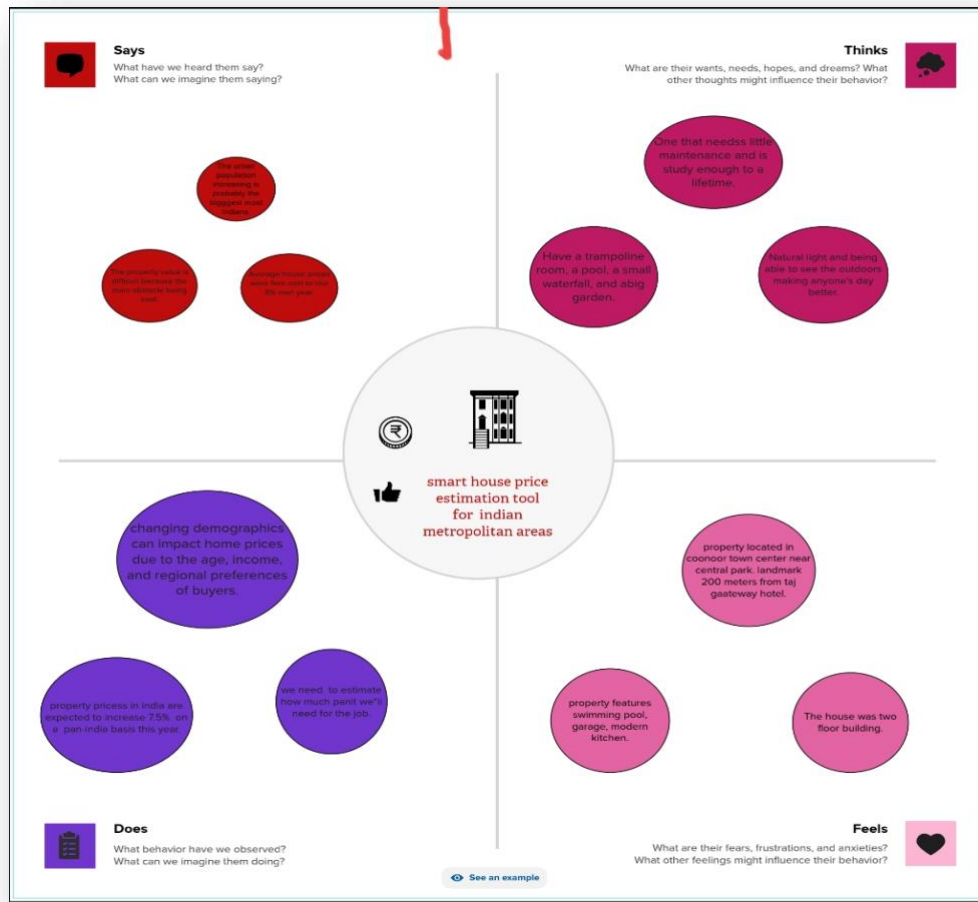
- **PURPOSE:**

The purpose of this project is to create a tool that can predict the prices of houses in a big city in India. This tool uses data from past house sales, details about the houses, and where they are located to make these predictions. The goal is to help people who want to

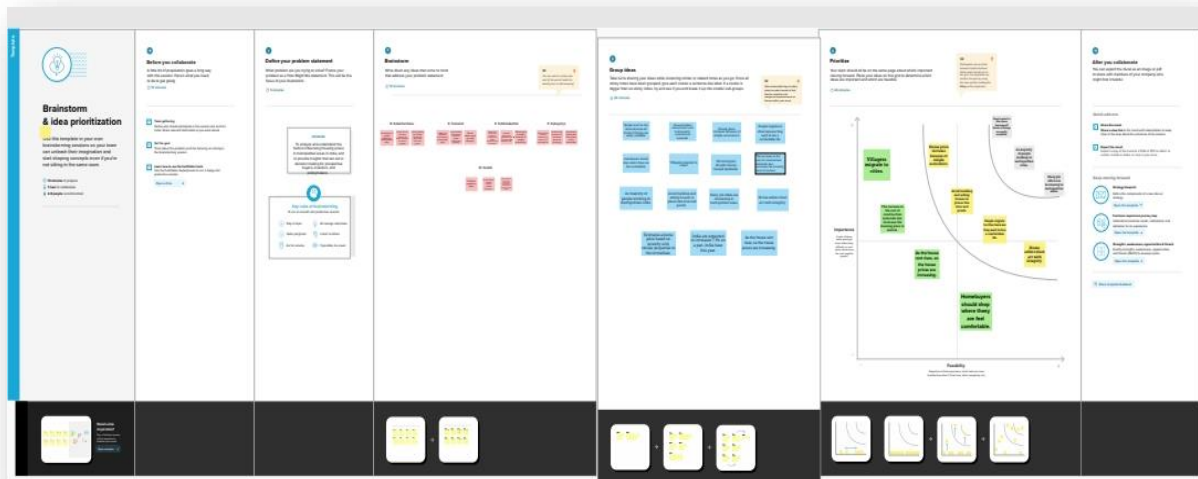
buy houses, real estate agents, and investors make better decisions by giving them accurate price estimates. It also aims to be user-friendly, up-to-date, and transparent in how it works. Additionally, the project focuses on being able to handle a lot of data, ensuring data privacy, and keeping costs reasonable. This helps users navigate the fast-paced real estate market more effectively.

## ➤ **PROBLEM DEFINITION & DESIGN THINKING:**

### **EMPATHY MAP:**



## BRAINSTORMING MAP:

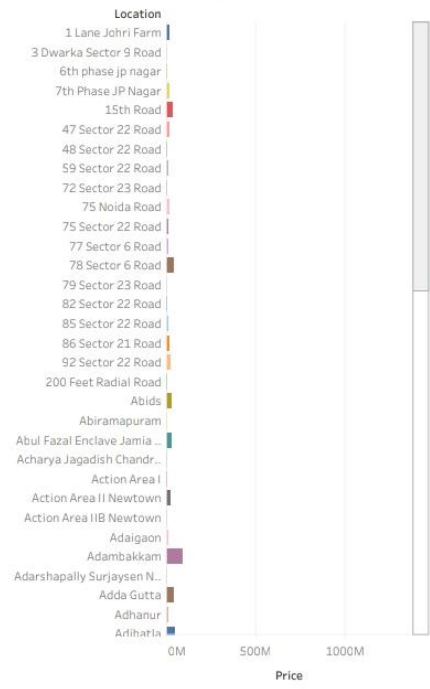


## ➤ RESULT:

- **Screen shots**

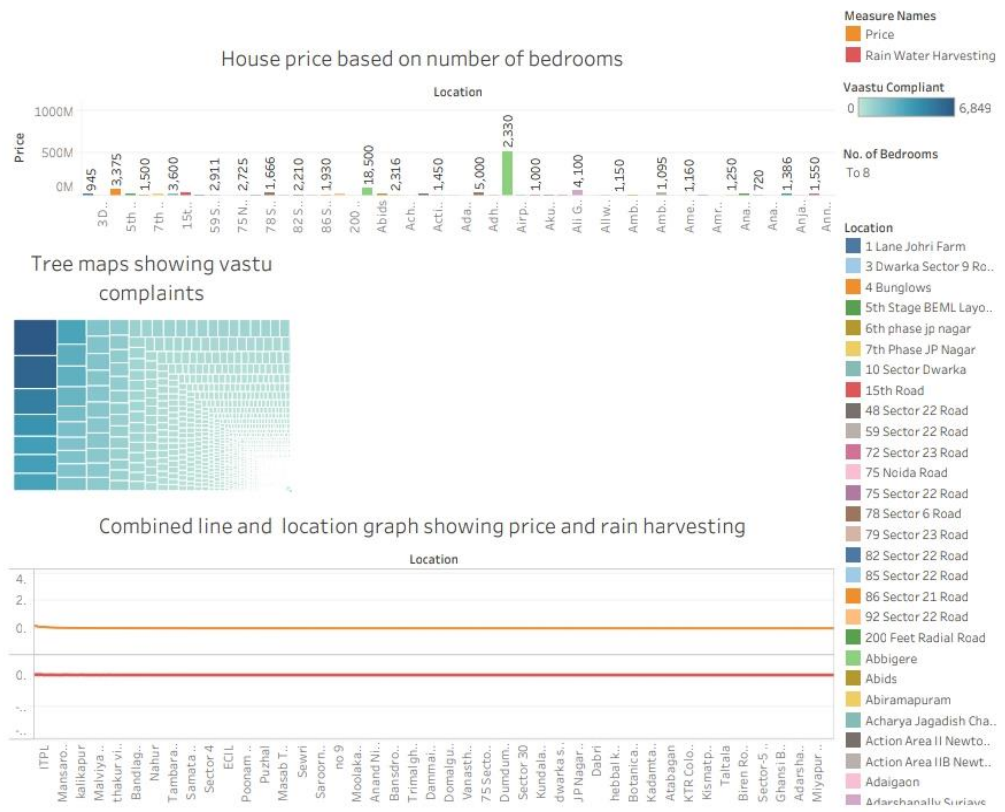
# Dashboard

Bar Graph showing prices as various locations



Latitude and Longitude based on location



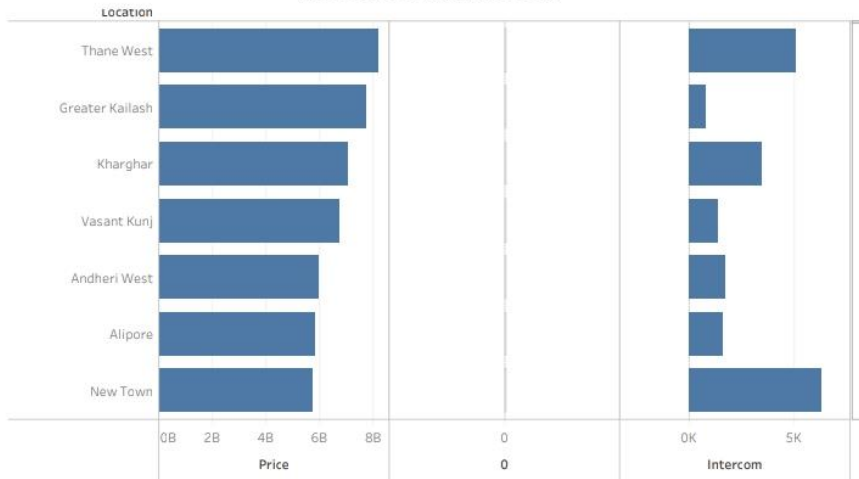


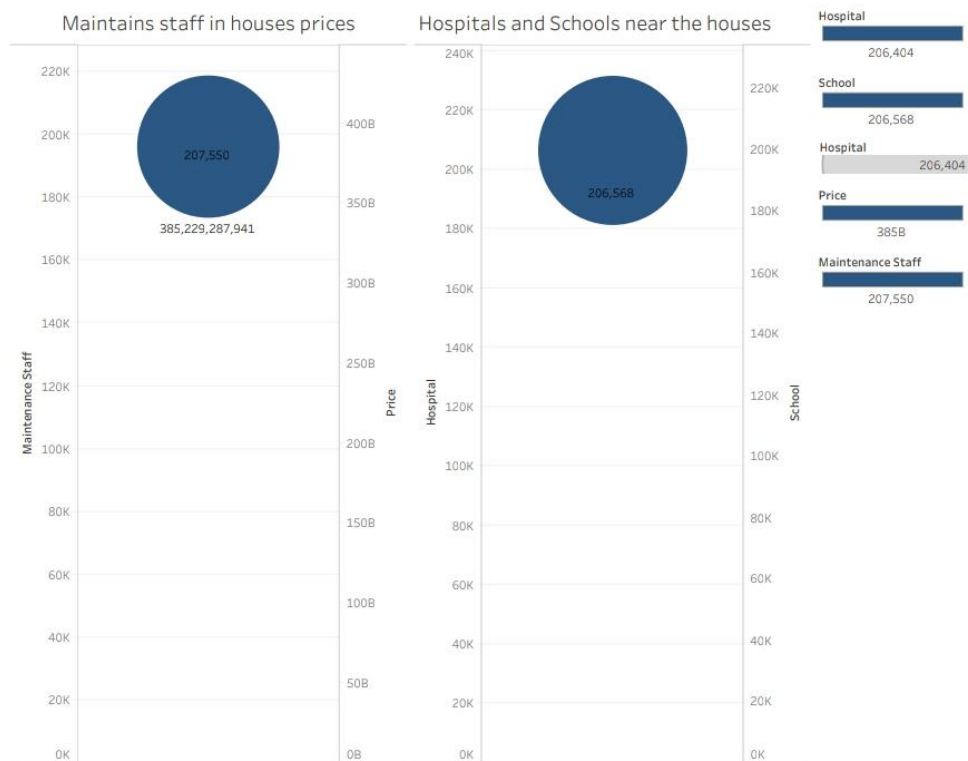
All services based on location



- Measure Names**
- 0
  - 24X7Security
  - AC
  - ATM
  - BED
  - Cafeteria
  - Car Parking
  - Children'splayarea
  - Club House
  - Dining Table
  - Gymnasium
  - Hospital
  - Indoor Games
  - Intercom
  - Lift Available
  - Maintenance Staff
  - Microwave
  - Multipurpose Room
  - No. of Bedrooms
  - Power Backup
  - Rain Water Harvesting
  - Refrigerator
  - School
  - Shopping Mall
  - Sofa
  - Sports Facility
  - Swimming Pool
  - TV
  - Vaastu Compliant
  - Wardrobe
  - Washing Machine
- Measure Values**
- 6,120,546

House price and intercom





Story :





One of the significant advantages of this house price prediction project is that it provides valuable insights to potential home buyers, real estate agents, and investors. By using historical data and property information, it offers accurate price estimates, helping individuals make informed decisions in the dynamic real estate market. Its real-time updates and user-friendly interface make it convenient and up-to-date. Moreover, the transparency of the model ensures that users understand how the predictions are generated.

However, there are potential disadvantages to consider. Scalability can be a challenge, especially when dealing with a vast amount of data.

Integrating the model into existing systems may require some effort, and there might be concerns about data privacy and security, as personal information is involved. Additionally, the project's cost-effectiveness may depend on the resources and technology required for its

**implementation. Careful consideration and planning are essential to mitigate these disadvantages and maximize the benefits of the house price prediction project.**

### ➤ **APPLICATIONS:**

The application of this house price prediction project is quite versatile and can benefit various stakeholders. For potential home buyers, it offers the advantage of getting more accurate estimates of house prices, helping them make well-informed decisions when purchasing property. Real estate agents can use the tool to provide clients with better guidance, improving their service and competitiveness in the market.

Investors can utilize the predictions to identify potential investment opportunities and understand market trends, thereby optimizing their real estate portfolio. Furthermore, the project can be applied by city planners and local

authorities to assess the impact of development and urban planning decisions on property values.

The project's transparency and user-friendly interface make it accessible to a wide range of users, while its real-time updates ensure that the information remains current and relevant in the fast-paced real estate industry. However, it's important to consider data privacy and integration challenges in its application to ensure its effectiveness and security.

## ➤ CONCLUSION:

In conclusion, the house price prediction project serves as a valuable tool in the context of the dynamic real estate market in a metropolitan city in India. By leveraging historical sales data, property details, and location-specific information, it offers accurate price estimates, empowering potential home buyers, real estate agents, and investors to make informed decisions. Its user-friendly interface, real-time updates, and transparency enhance its usability.

Nevertheless, scalability, data privacy, and integration considerations are essential to address potential challenges. When implemented thoughtfully, this project can be a significant asset for those navigating the real estate market, providing reliable insights and contributing to more informed decision-making in a fast-paced urban setting.

### ➤ **FUTURE SCOPE:**

The future scope of the house price prediction project holds significant potential for advancement and expansion. Leveraging ongoing developments in machine learning and data analysis, the project can improve its accuracy, providing even more dependable price estimates to users. Furthermore, by extending its coverage to encompass multiple metropolitan areas in India and eventually branching into global markets, it can cater to a broader audience of investors and property buyers. Market trend analysis can be integrated to offer users insights into the future trajectory of property prices, facilitating better long-term decision-making. The project's future may also see the incorporation of blockchain and smart contracts for secure and transparent transactions. Additionally, the development of AI-driven real estate assistants and mobile

applications can make accessing predictions more user-friendly and convenient. Collaborations with local governments for urban planning and the use of real-time data sources, such as IoT devices, could further enrich the project's capabilities. By fostering data collaborations and partnerships, this project is poised to continue evolving and meeting the diverse needs of the real estate industry and its stakeholders in an increasingly data-driven world.