

**ANALYSING HOUSING PRICES IN
METROPOLITAN AREAS OF INDIA**

**BACHELOR OF SCIENCE IN MATHEMATICS AND
PHYSICS**

TEAM ID : NM2023TMID35647

TEAM LEADER : Ms. U. THAMARAI

MEMBERS : Ms. S. SUPRIYA

Mrs. R. JEEVASRIMATHI

Ms. R. SASMITHA

Under the Guidance of

Ms. B. MONISHA , M.Sc.,B.Ed.,

Assistant Professor, **Department of Physics**



DEPARTMENT OF MATHEMATICS AND PHYSICS

K.S.R COLLEGE OF ARTS AND SCIENCE FOR WOMEN

TIRUCHENGODE – 637215,

NAMAKKAL DISTRICT, TAMILNADU.

ANALYSING HOUSING PRICES IN METROPOLITAN AREAS OF INDIA

1. INTRODUCTION

1.1 OVERVIEW:

House price prediction in a metropolitan city in India is a valuable solution for potential home buyers, real estate agents, and investors. By leveraging historical sales data, property details, and location-specific information, a predictive model can accurately estimate house prices. The model's scalability, real-time updates, user-friendly interface, and transparency ensure it meets the needs of stakeholders. Integration capability, data privacy, and cost effectiveness are also important considerations. By addressing these requirements, the prediction model provides reliable insights, empowering stakeholders to make informed decisions in the fast-paced real estate market.

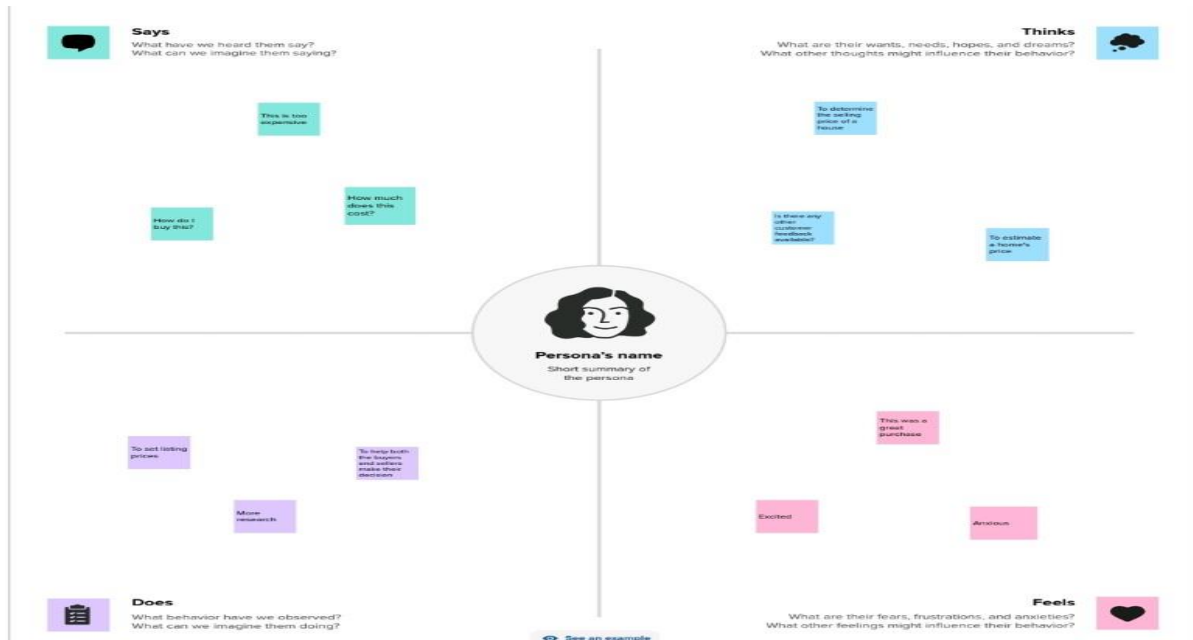
1.2 PURPOSE:

The house price prediction in a metropolitan city in India include developing an accurate prediction model that can estimate property prices. The real estate market in such cities is complex and dynamic, making it challenging for potential home buyers, real estate agents, and investors to accurately estimate property values. The goal is to provide a reliable and accurate prediction tool that assists users in navigating the competitive real estate market and maximizing their returns. The solution should have a user-friendly interface, ensure transparency and explain the ability of predictions, prioritize data privacy and security, and define performance metrics for evaluation.

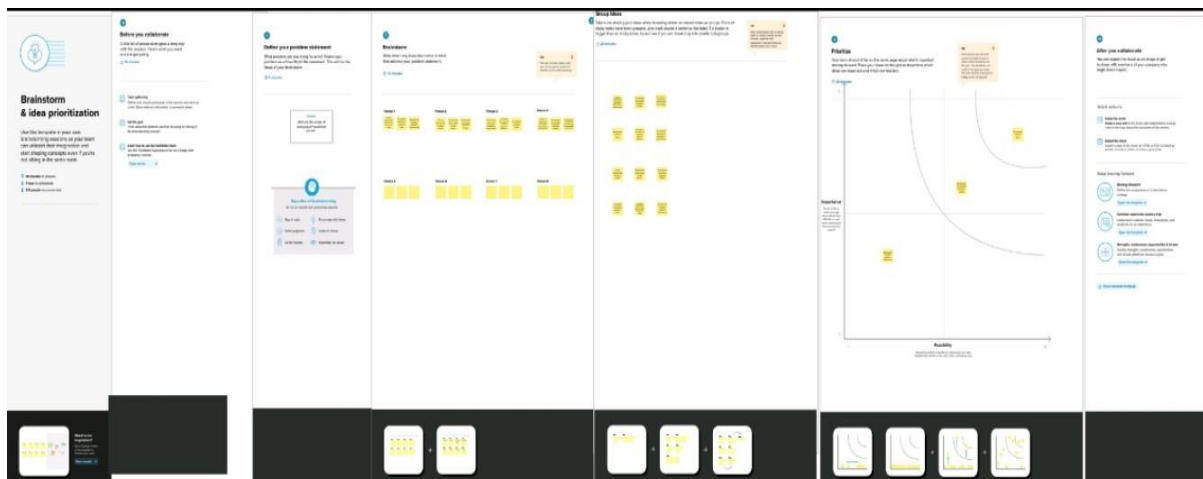
2. PROBLEM DEFINITION AND DESIGN THINKING

The problem at hand is the prediction of house prices in a metropolitan city in India. The requirements for house price prediction in a metropolitan city in India include developing an accurate prediction model that can estimate property prices.

2.1 EMPATHY MAP:

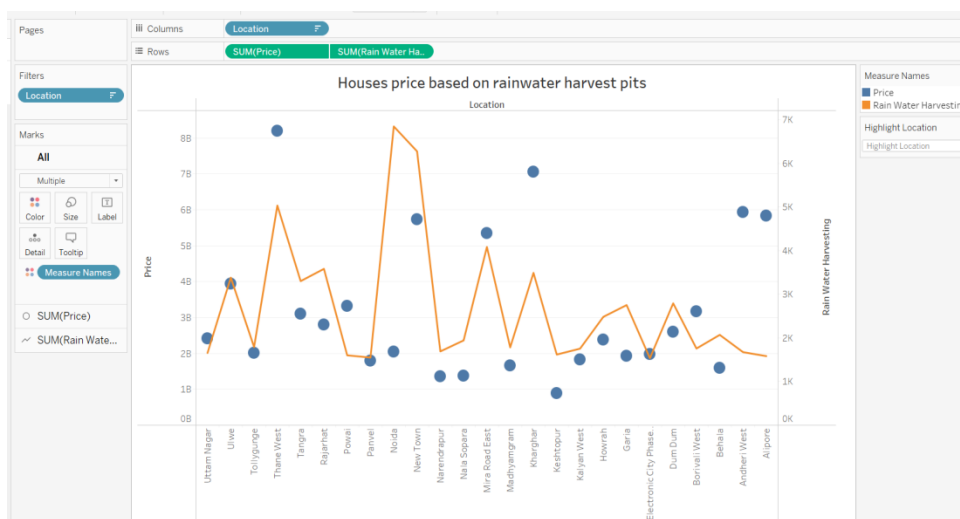
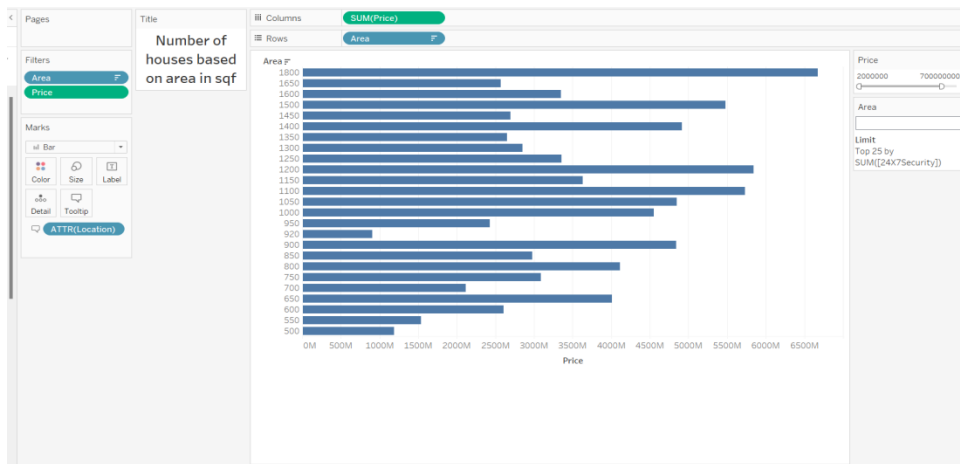
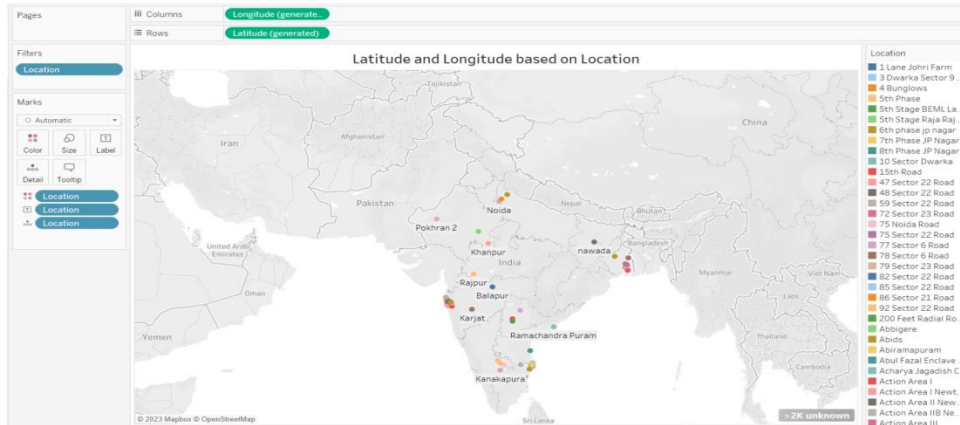


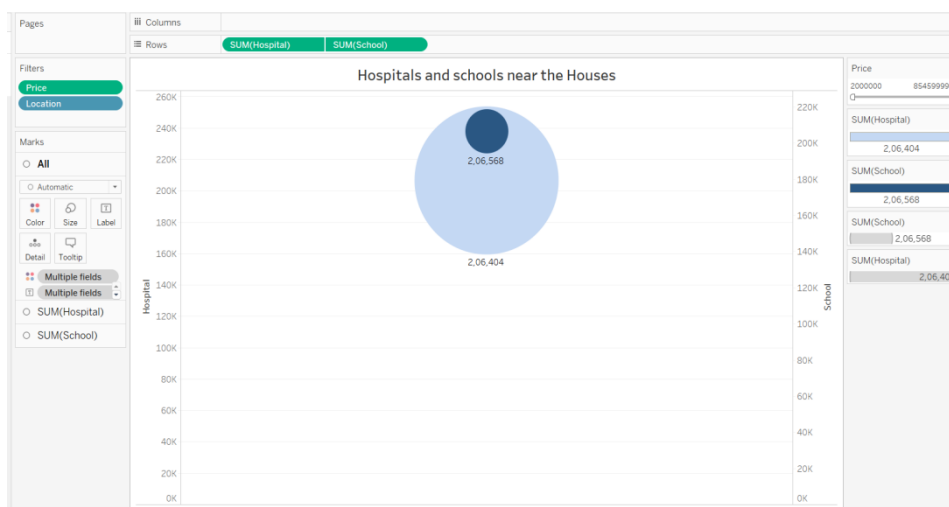
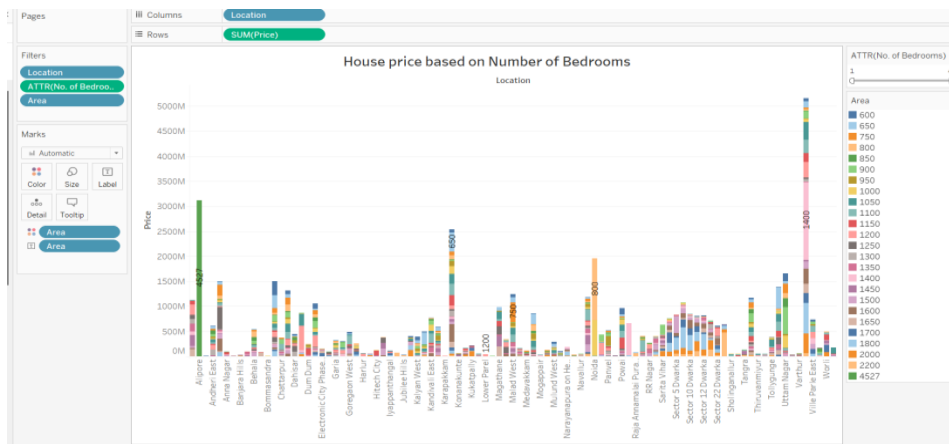
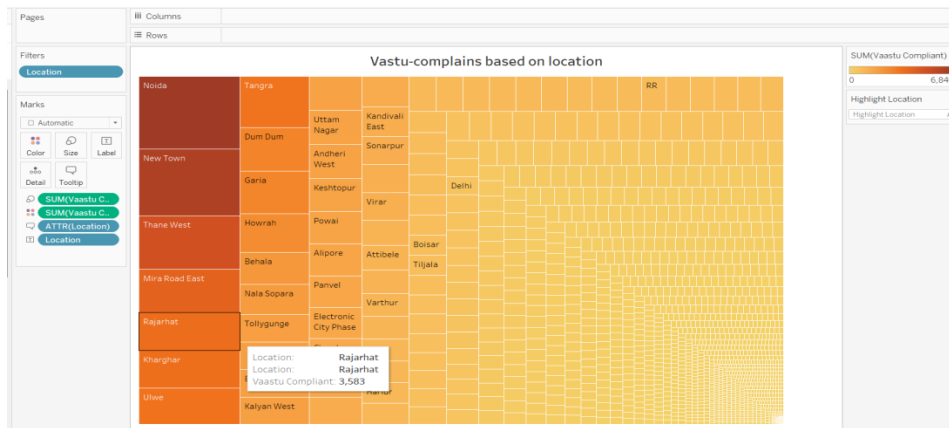
2.2 IDEATION AND BRAINSTORMING MAP :

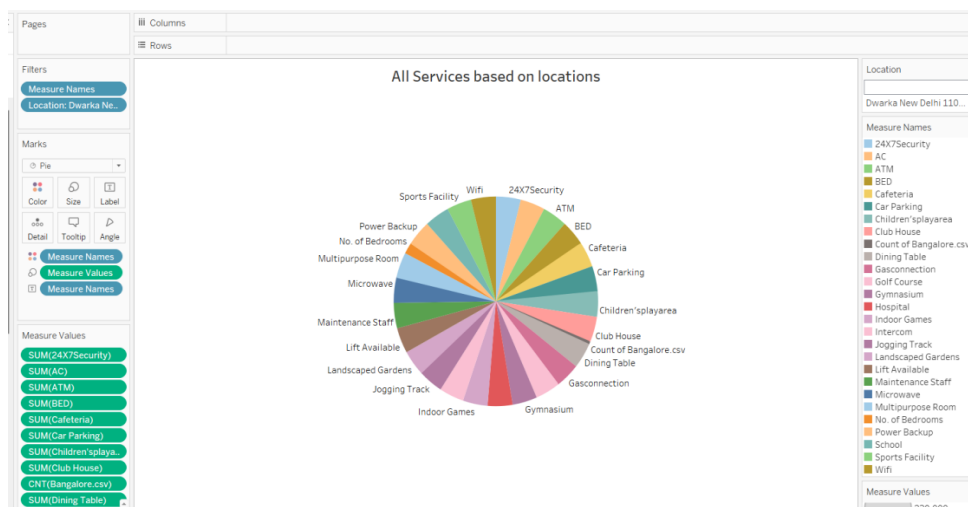
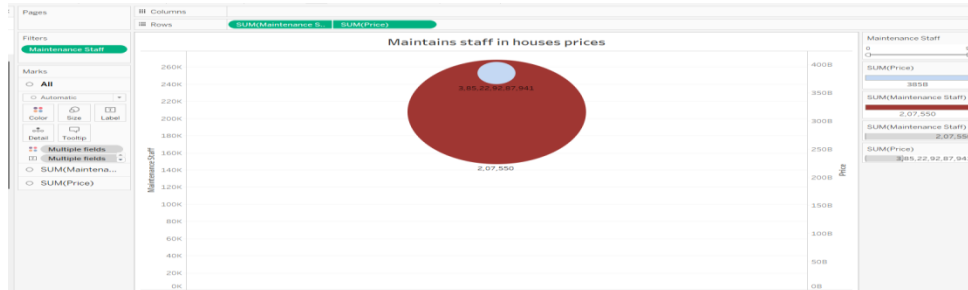


3. RESULT

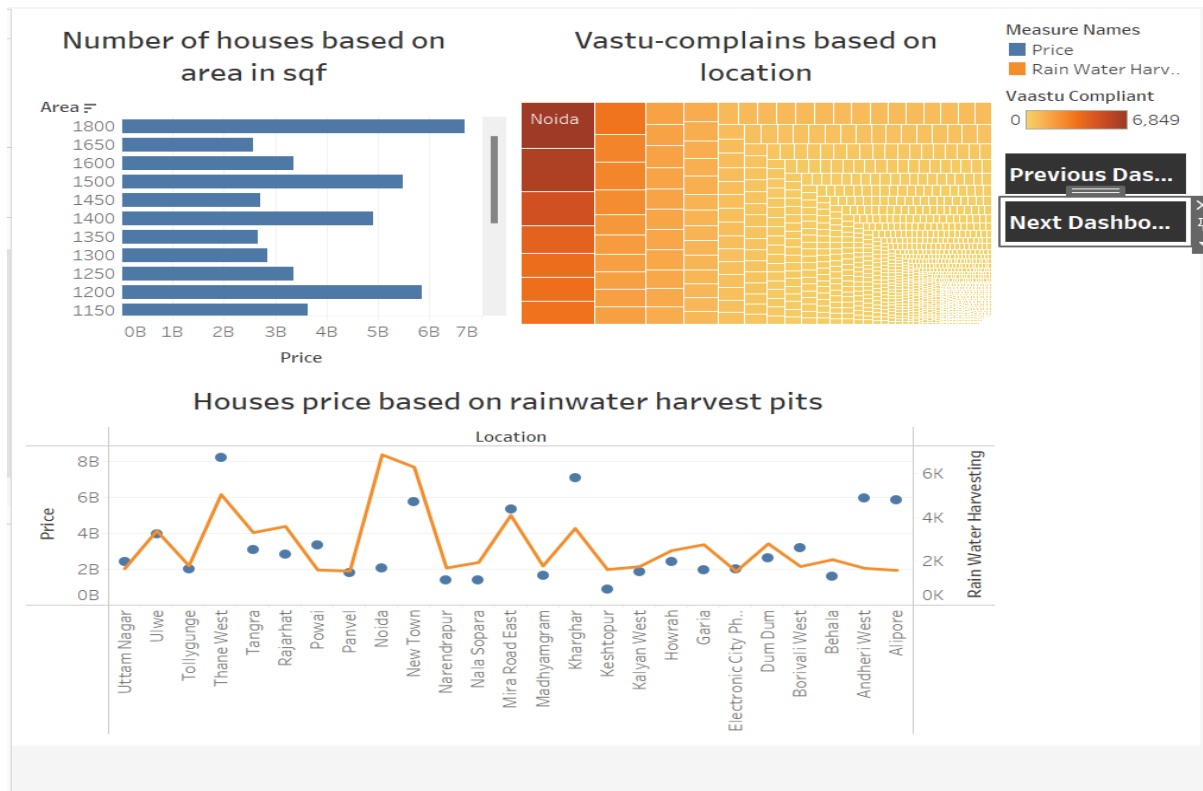
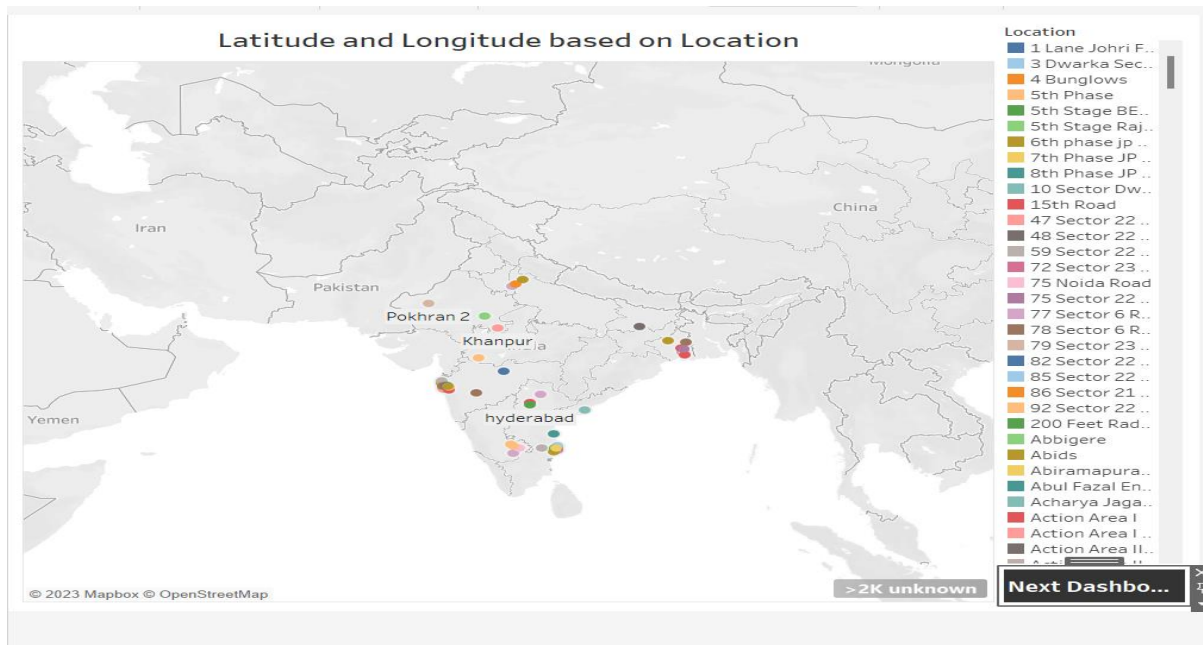
SHEETS:

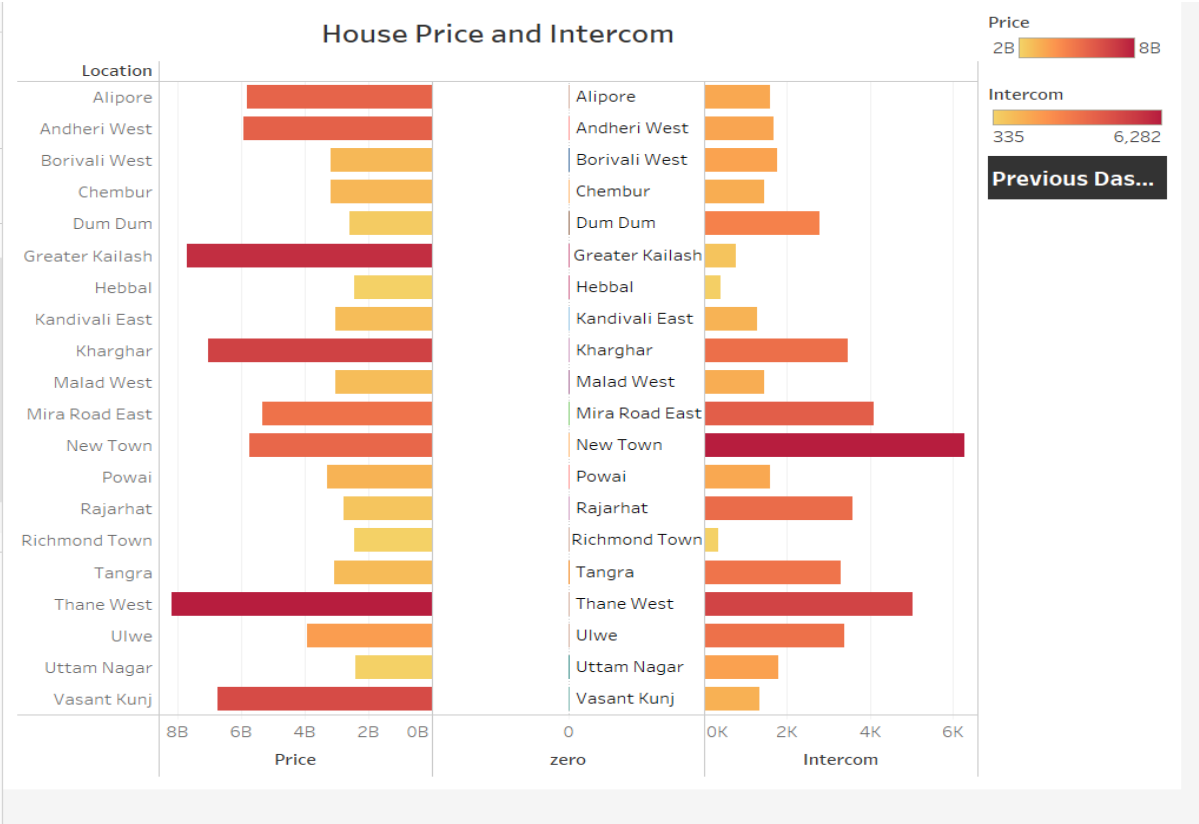
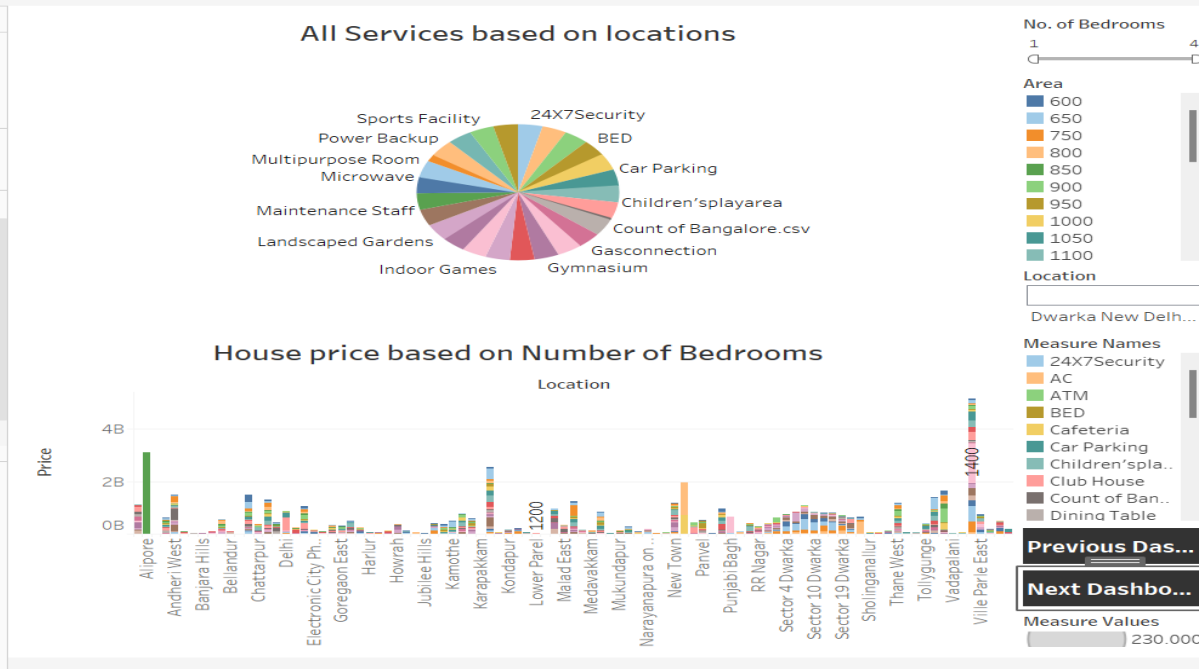






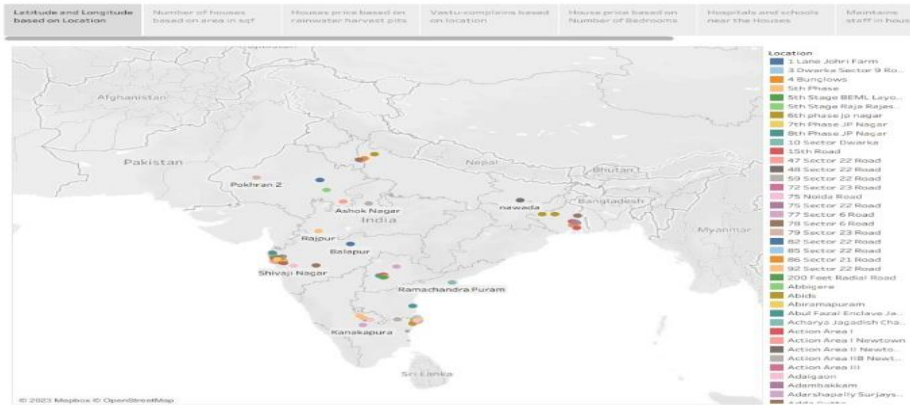
DASHBOARD:



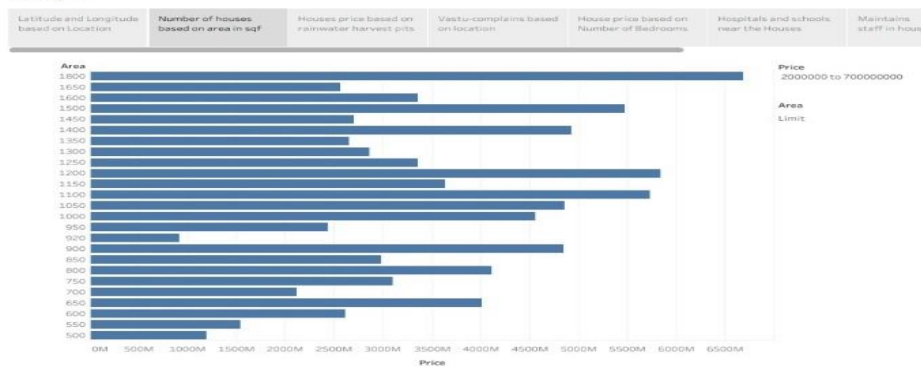


STORY:

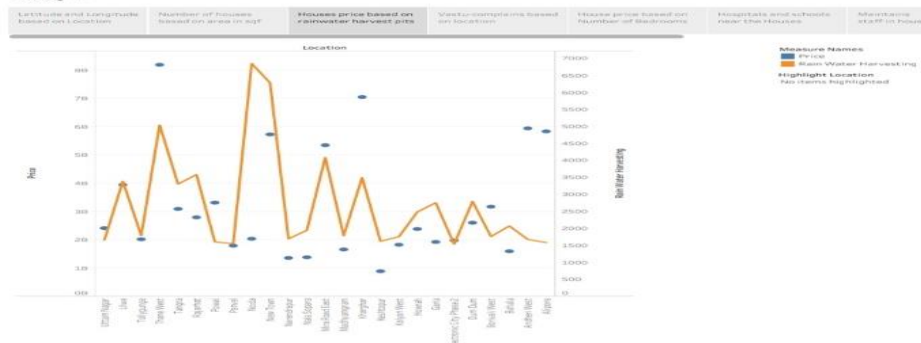
Story 1



Story 1



Story 1

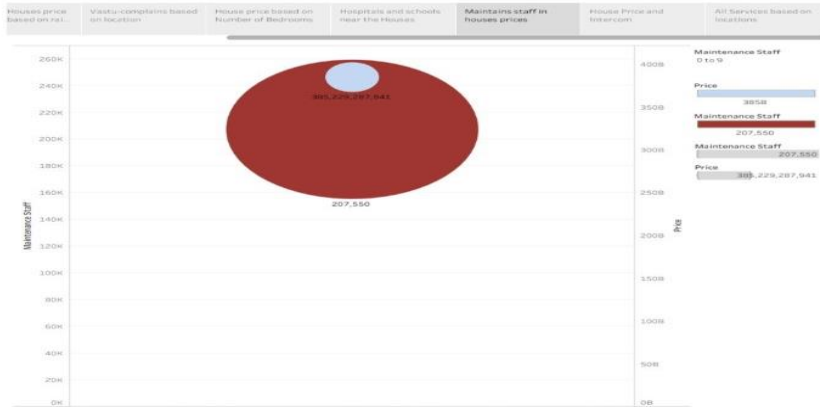


Number of houses based on...	Houses price based on rainwater harvest pots	Wastu-complaints based on location	House price based on Number of Bedrooms	Hospitals and schools near the Houses	Maintains staff in houses prices	House Price and Intercom
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Latitude and Longitude based..	Number of houses based on area in sqf	Houses price based on rainwater harvest pits	Vastu-complains based on location	House price based on Number of Bedrooms	Hospitals and schools near the Houses	Maintains staff in houses prices
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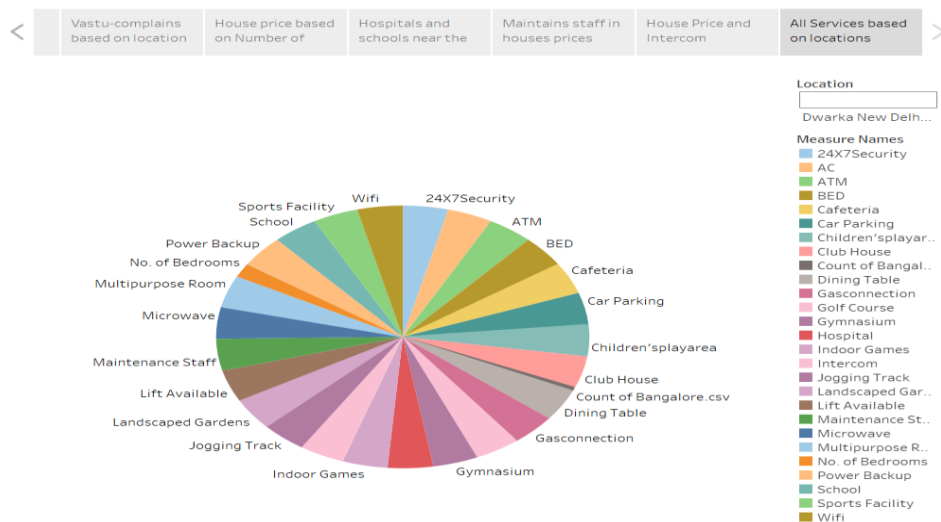
Story 1



Story 1



Story 1



House price prediction in a metropolitan city in India is a valuable solution for potential home buyers, real estate agents, and investors. By leveraging historical sales data, property details, and location-specific information, a predictive model can accurately estimate house prices. By addressing these requirements, the prediction model provides reliable insights, empowering stakeholders to make informed decisions in the fast-paced real estate market.

4. ADVANTAGE AND DISADVANTAGE

ADVANTAGE:

- As the safety and security of real estate investments are widely accepted, many investors consider property investment as a suitable hedge against inflation. Historically, property price appreciation and annual rental yield have consistently outperformed inflation.
- Before you invest in stocks or distribute your investments among several mutual funds, you conduct rigorous research on its historical returns, risks, expenses, etc. On the other hand, when you decide to buy a property, fewer hassles are involved.
- Local real estate markets have pronounced loopholes, and even investors can notice them. Property investment enthusiasts who follow local news and learn about the relative strengths of the neighbouring markets can pull off remarkable bargains.

DISADVANTAGE:

- Maintaining a property can be laborious and costly. The high capital requirement for supporting overhead costs and repaying a home loan is one of the major disadvantages of property investment. In addition, one may have to pay for unexpected maintenance issues like a leaky roof or broken pipes. Repair charges can be substantial.

- Property hunting demands sufficient time and experience. One needs to visit a location and check whether or not builders are providing all the promised amenities upon buying real estate. Before locking in deal, you must evaluate the reasonable price range and conduct background checks to ensure the value of your investment.
- High brokerage and legal charges are the foremost disadvantage of real estate investment.

5. APPLICATION:

- House price prediction can help the developer determine the selling price of a house and can help the customer to arrange the right time to purchase a house.
- Helps to analyse the real estate price to buy a house in low.
- To explore the nature of housing prices in different and increase the rate of interest to buy a house.
- Knowing the price range in the future and to predict the house prices in cities.
- Estimating a house price and the distribution of population associated with the house price are calculations.

6. CONCLUSION:

In conclusion, house price prediction in a metropolitan city in India is a valuable solution for potential home buyers, real estate agents, and investors.

By developing a predictive model using relevant datasets and features, stakeholders can gain insights into the factors influencing house prices and make informed decisions regarding property investments.

The solution should have a user-friendly interface, ensure transparency and explain the ability of predictions, prioritize data privacy and security, and define performance metrics for evaluation.

7. FUTURE SCOPE:

- Property prices in India are likely to increase over the coming years, mirroring the country's economic growth. However, increased cost of buying houses could hit the affordable segment.
- The goal is to provide a reliable and accurate prediction tool that assists users in navigating the competitive real estate market and maximizing their returns.
- To explore the nature of housing prices in different and increase the rate of interest to buy a house.
- To knowing the price range in the future and to predict the house prices in cities.