

Analysing Housing Prices In Metropolitan Areas Of India

INTRODUCTION:

Overview:

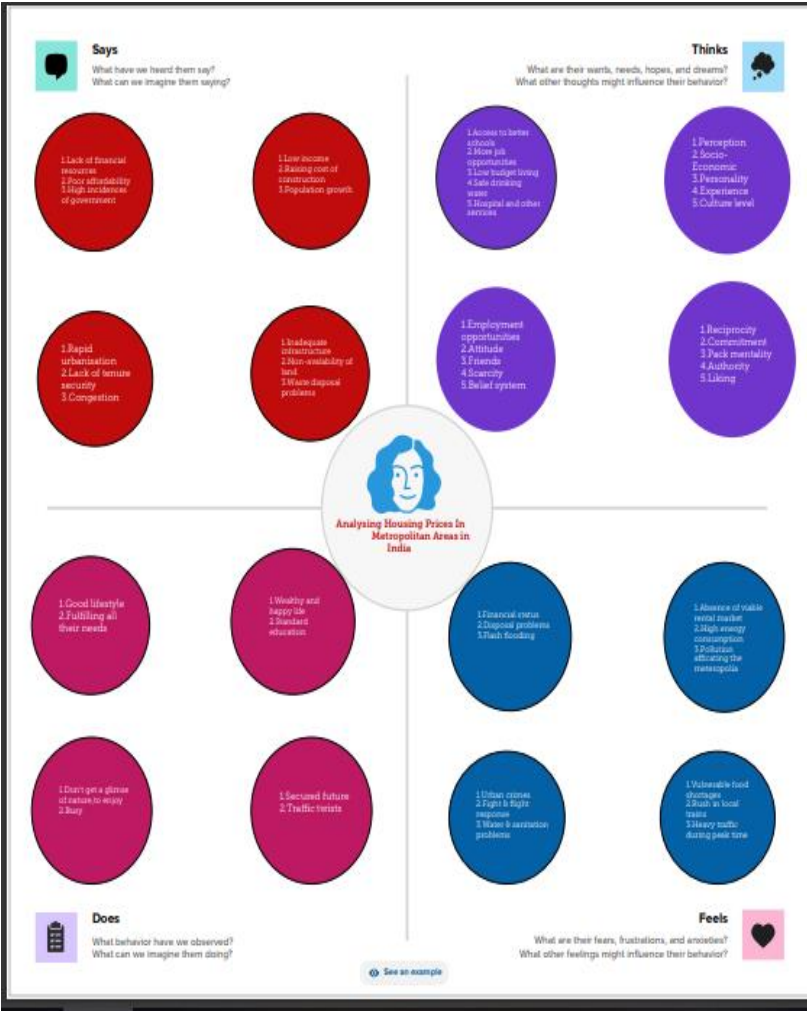
The housing market in metropolitan areas of India has witnessed significant changes in recent years driven by factors such as urbanization, population growth, economic development and changes in lifestyle preferences. Understanding the dynamics of housing prices in these urban hubs is crucial for various stake holders, including home buyers, real estate developers, investors and policy makers.

Purpose:

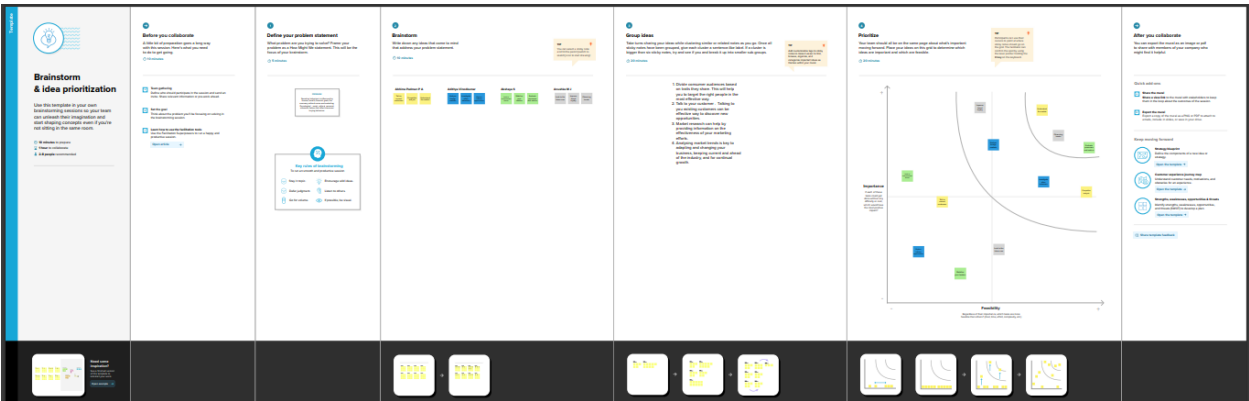
This project aims to delve into the multifaceted nature of housing prices in India metropolitan areas ,seeking to provide valuable insights into the key driver , trends , and patterns. By analyzing a vast array of data sources, including historical price data , demographic information , economic indicators and regulatory changes, we aim to answer critical questions related to housing affordability , investment opportunities , and the overall health of the real estate market in this regions.

2. PROBLEM DEFINITION AND DESIGN THINKING:

2.1 Empathy Map



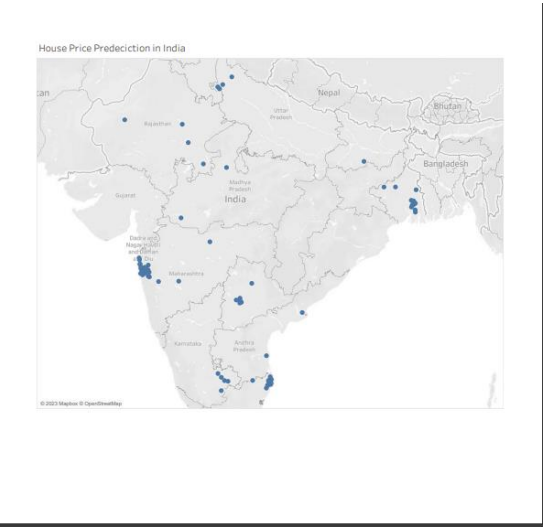
2.2 Ideation and Brainstorming



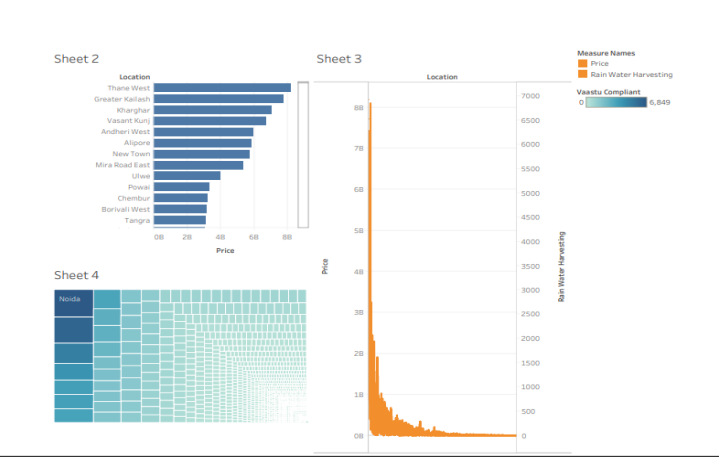
3. RESULT:

We created the data visualization such as dashboard and story using the dataset provided.

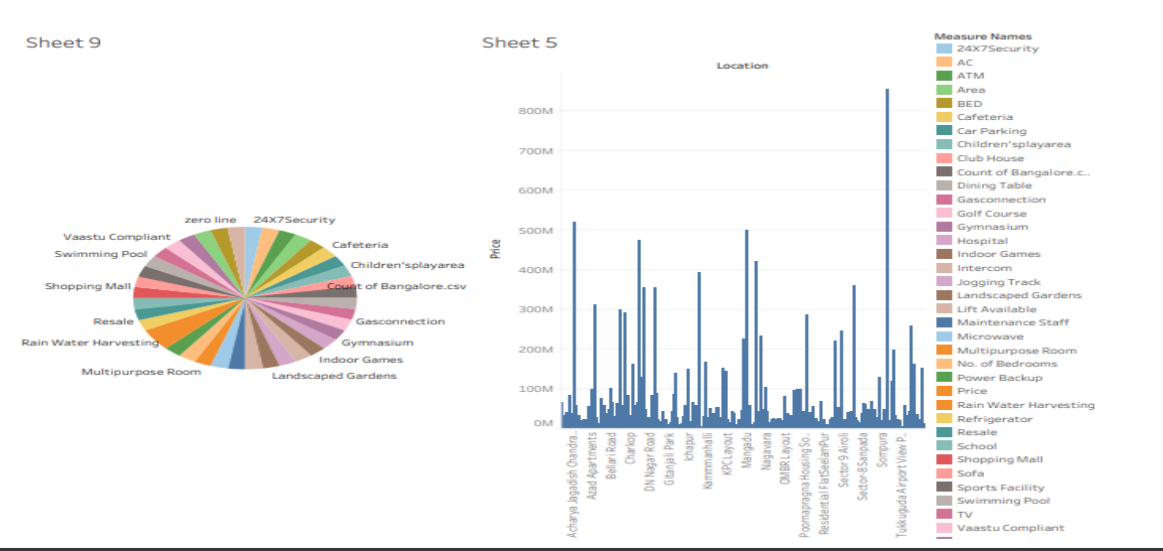
DASHBOARD 1:



DASHBOARD 2:

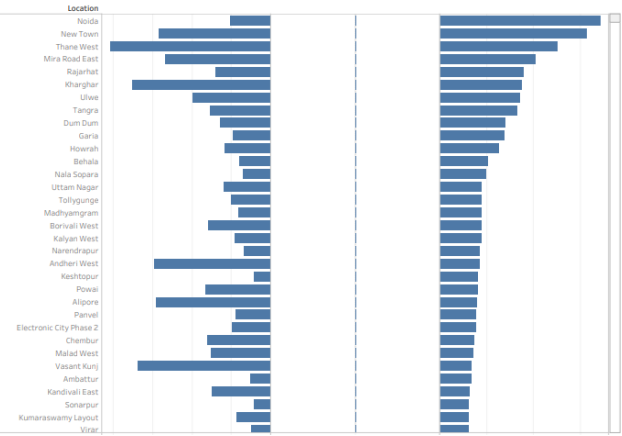


DASHBOARD 3:

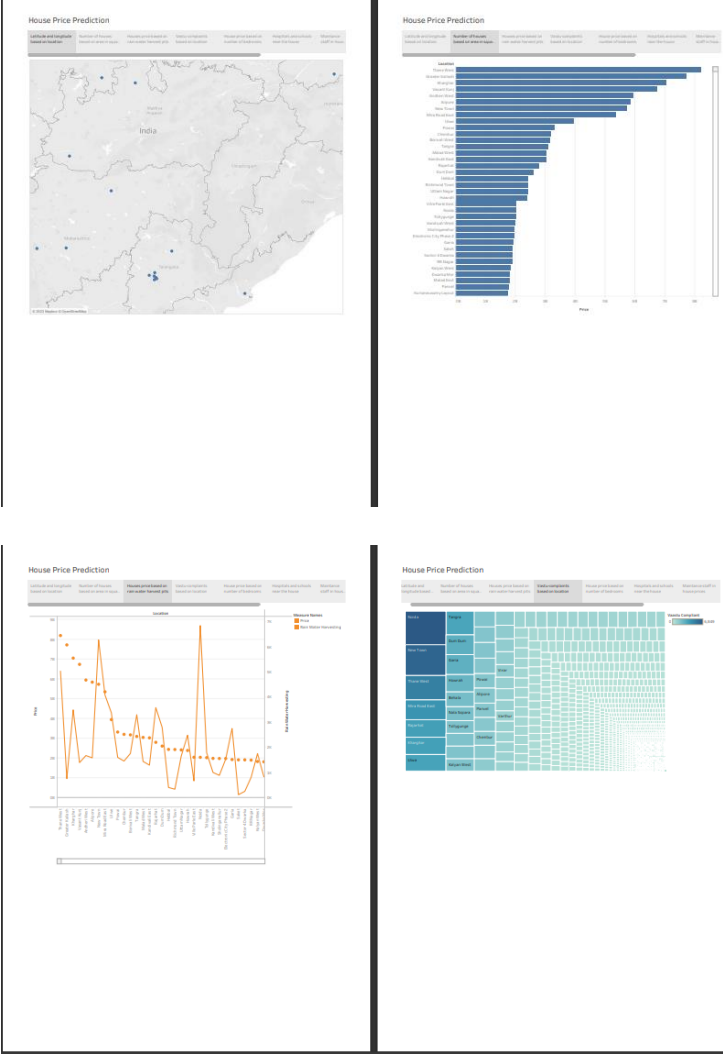


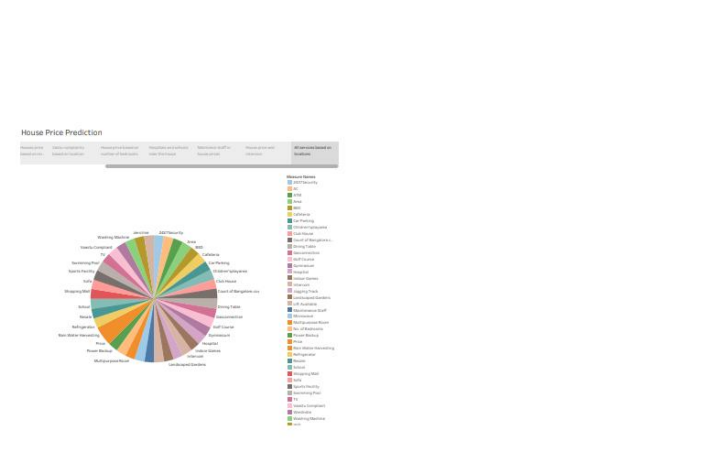
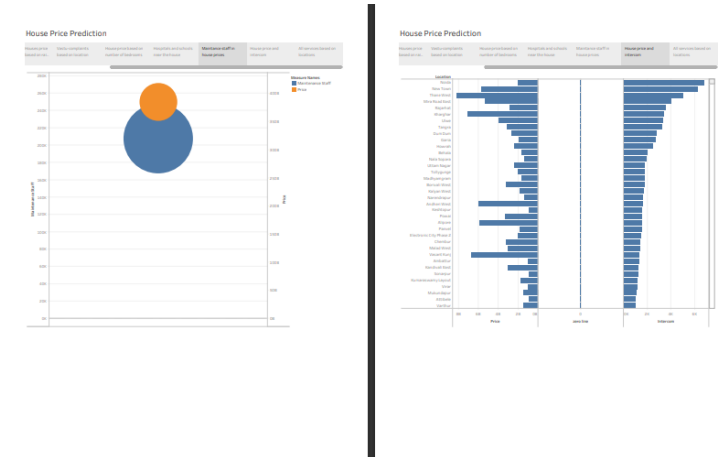
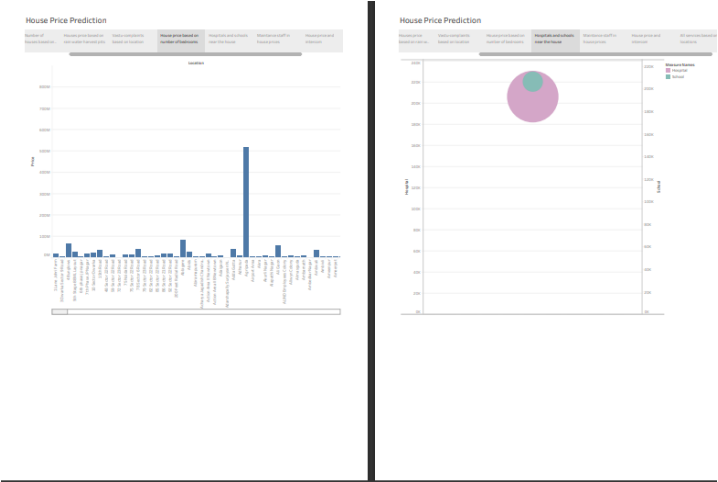
DASHBOARD 4:

Sheet 8



STORY:





4. ADVANTAGES AND DISADVANTAGES:

ADVANTAGES:

- The project provides valuable data driven insights for them to make informed decisions regarding housing investments and policies.

- It helps potential homebuyers assess the affordability of housing in different metropolitan areas, aiding in better financial planning and choices.
- Predictive models can assist in forecasting housing price trends, helping buyers and sellers anticipate market movements.
- Policymakers can use the projects findings to formulate more effective housing policies that address affordability and market stability.

DISADVANTAGES:

- The accuracy and reliability of data sources can be a challenge, as real estate data may not always be up-to-date or complete.
- Handling personal and sensitive data related to real estate transactions may raise privacy concerns and require robust data security measures.
- Predictive models may have inherent uncertainty, and market conditions can change rapidly, affecting the accuracy of forecasts.

5 APPLICATIONS:

The following applications provide valuable insights into housing prices in metropolitan areas of India.

- Homebuyers can use the insights to identify affordable housing options and make informed purchasing decisions.
- Renters can assess the rental market to find areas with reasonable rent prices.

- Real estate developers can identify lucrative investment opportunities and plan developments accordingly.
- Investors can make data-driven decisions on buying, selling, or holding real estate assets.
- Policy makers can formulate housing policies that address affordability, housing supply, and urban planning based on the projects findings.
- Governments can better allocate resources for infrastructure development in areas with high real estate potential.

6 CONCLUSION:

Define Problem and Problem Understanding

- Specify the housing prices problem
- Basic requirements
- Literature Survey

Data Collection & Extraction

- Connect dataset with Tableau
- Collect the dataset

Data preparation

- Prepare the data for visualizations

Dashboard

- Responsive and design of dashboard

Story

- No of sense of story

Performance Testing

- Utilization of Data Filters
- No of Visualizations & Graphs

Project Demonstration and Documentation

- Record explanation video for project end to end solution.

By this we conclude our project.

7 FUTURE SCOPE:

The future scope for a project analyzing housing prices in metropolitan areas of India is extensive, as the real estate market is dynamic and continuously evolving. Here are some potential areas for future development and expansion of such a project. It enhance predictive models by incorporating more advanced machine learning techniques an AI algorithms. This can improve the accuracy of price forecasts and trend analysis.