

BACHELOR OF SCIENCE IN PHYSICS



**MRK COLEGE OF ARTS AND SCIENCE
PAZHANCHANALLUR**

ANALYSING HOUSING PRICES IN

METROPOLITAN AREAS OF INDIA

1. Introduction

In this project, we have built a machine learning model to predict the house prices of an Indian city .

This project will very helpful for the real estate market.

Our model can be used by both house sellers and house buyers.

1.1 Over view

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 hose prices

1.2 Purpose

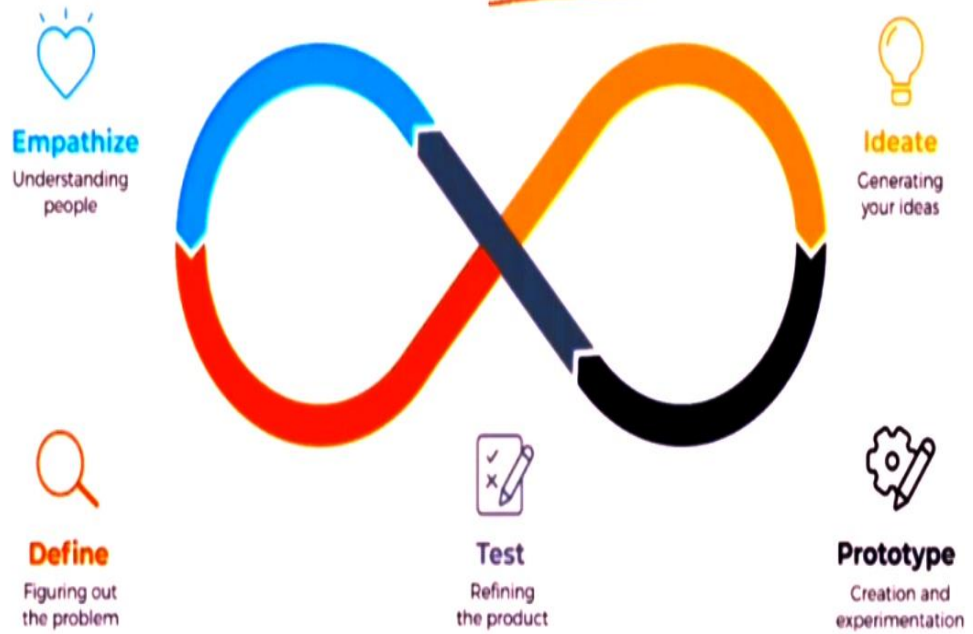
Analysing housing market can provide valuable information to policy makers and help them better control inflation and design more effective policies.

2. Problem statement & design thinking

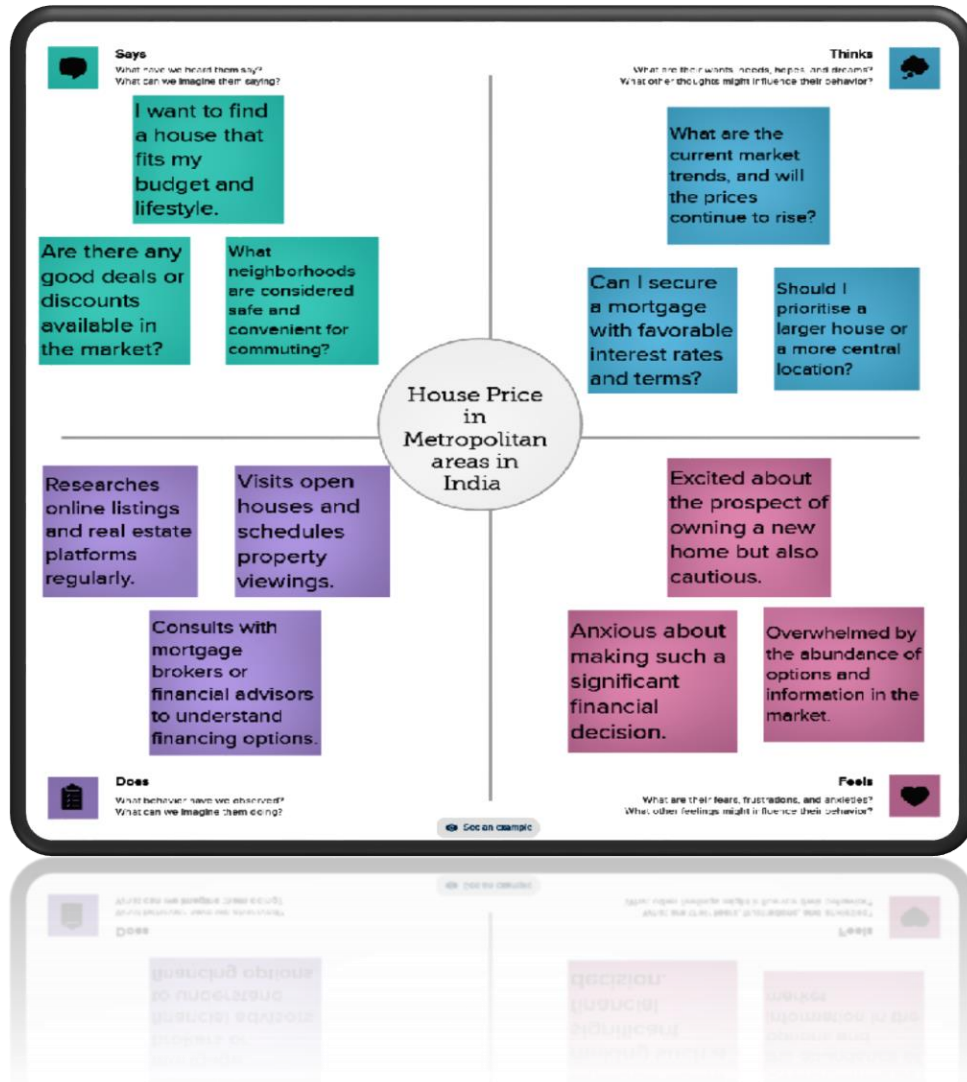
Mitigating the escalating house prices crisis in Indian metropolitan areas to ensure sustainable Urban Development.

Design Thinking Process

DESIGN THINKING



2.1 Empathy map



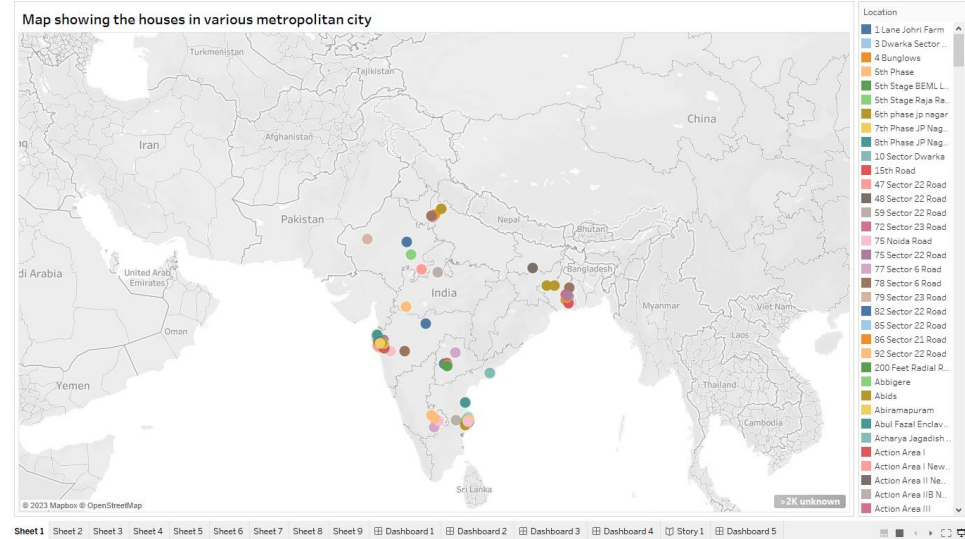
2.2

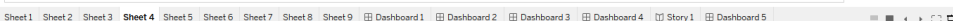
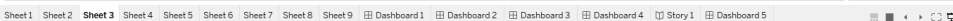
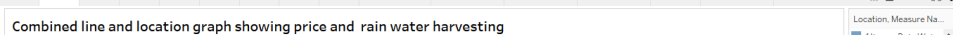
2.2 Brainstorming map

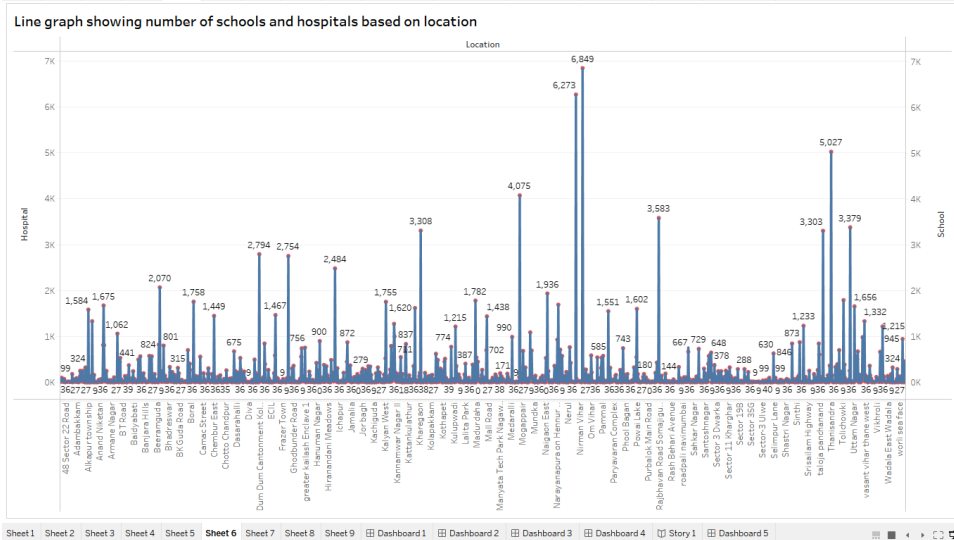
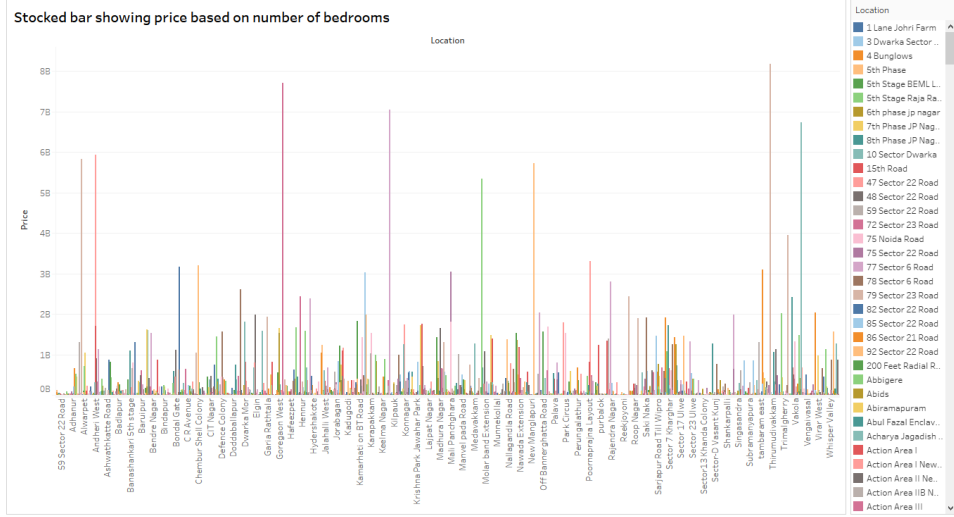
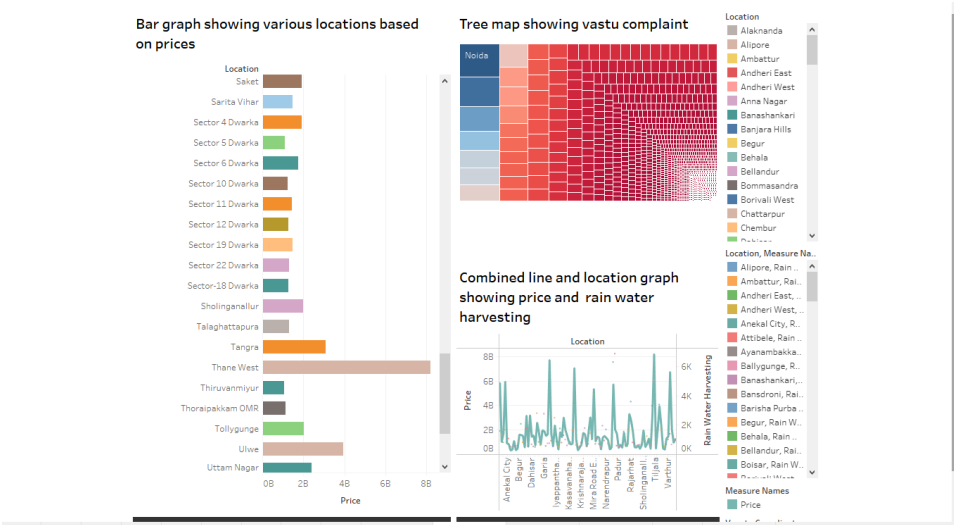


3.Result

As per the report, housing prices in Ahmedabad rose 10 per cent Y-o-Y to 6507 rupees per square feet during April-June period . Bengaluru too witnessed a 10 per cent increase in prices to 8,688 rupees per square feet. The prices of residential properties in Chennai went up 6 per cent to 7,653 rupees per square feet







[illegible]

| Location | Hospital | School |
|-----------------------------|----------|--------|
| Alwarunda | 1,233 | 846 |
| Balaji Hills Colony Venkat. | 2,070 | 1,233 |
| BackSD Delhi | 2,794 | 1,233 |
| Channarayana | 2,794 | 1,233 |
| Gandhar Nagar | 2,794 | 1,233 |
| Hovnah Railway Station | 2,794 | 1,233 |
| Kannur | 3,308 | 1,233 |
| Kempapura | 3,308 | 1,233 |
| Mallabar Hill | 4,076 | 1,233 |
| MNSC Bow Road Mahaveera | 3,583 | 1,233 |
| Poornima Housing So. | 3,583 | 1,233 |
| Road Nagar | 3,303 | 1,233 |
| Shanti Park Dwaraka | 3,303 | 1,233 |
| Thiruvanniyur | 5,027 | 1,233 |

Location

- 1 Lane Johni Farm
- 3 Dwaraka Sector...
- 4 Bungalows
- 5th Phase
- 5th Stage BEML U...
- 6th Stage Raja Ra...
- 6th phase JP nagar
- 7th Phase JP Nag...
- 8th Phase JP Nag...
- 10 Sector Dwaraka
- 15th Road
- 47 Sector 22 Road
- 48 Sector 22 Road
- 59 Sector 22 Road
- 61 Sector 23 Road
- 75 Noisia Rd
- 75 Sector 22 Road
- 77 Sector 22 Road
- 78 Sector 6 Road
- 79 Sector 23 Road
- 82 Sector 22 Road
- 85 Sector 22 Road
- 86 Sector 21 Road
- 92 Sector 22 Road
- 92 Sector Radial R...
- Abbigere
- Abidis
- Abiramapuram
- Abul Fazal Enclav...
- Acharya Jagadish ...
- Action Area I
- Action Area I New...
- Action Area II Ne...
- Action Area II Ne...
- Action Area IIB N...

| Location |
|---------------------|
| 1 Lane Johni Farm |
| 3 Divwaria Sector 1 |
| 45 Chowls |
| 5th Phase |
| 6th Stage BEMIL |
| 6th phase JP Nagar |
| 7th Phase JP Nagar |
| 8th Phase JP Nagar |
| 10 Sector Divwaria |
| 13th Road |
| 2 Sector 22 Road |
| 45 Sector 22 Road |
| 53 Sector 22 Road |
| 72 Sector 23 Road |
| 75 Noisia Road |
| 75 Sector 22 Road |
| 77 Sector 6 Road |
| 78 Sector 6 Road |
| 79 Sector 22 Road |
| 80 Sector 22 Road |
| 85 Sector 22 Road |
| 86 Sector 22 Road |
| 92 Sector 22 Road |
| 200 Feet Radial R. |
| Abbigere |
| Aoids |
| Abramapuram |
| Abul Fazal Indev. |
| Abul Fazyal Jagnidh |
| Abul Fazyal Jagnidh |
| Action Area I New. |
| Action Area II New. |
| Action Area IIB N. |
| Action Area III |

4.Advantages & Disadvantages

Advantages of house prices in metropolitan areas in India:

High investment potential: Metropolitan areas are the economics and cultural centers of India, and they attract a large number of people from all over the country. This high demand for housing drives up property prices, making metropolitan areas a good investment for those looking to generate long-term returns.

Better infrastructure and amenities: Metropolitan areas have better infrastructure and amenities than other parts of the country. This includes things like better roads, public, transportation, schools, hospitals , and shopping malls. This makes metropolitan areas more desirable places to live , which further drives up property prices.

Disadvantages of house prices in metropolitan areas in India :

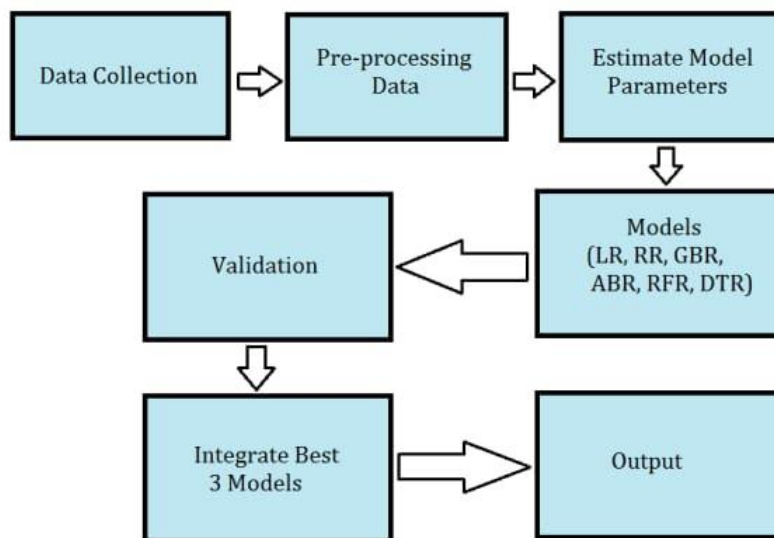
The disadvantages are massively out-numbered by the benefits of buying/owning your home, but just for the sake of anyone who hasn't really thought what the concept of "ownership" means in the context of a home.

Just like car ownership, if you own your home then you are responsible for all the bills.

Just like car ownership, with home ownership you are responsible for maintenance and repairs. If something breaks, or stops working,

or comes loose, or dangerous, then YOU are responsible for organising for it to be fixed and for paying the price of that work

5.Application :



6.Conclusion:

This implies that the housing markets in the different areas operate as segmented independent local markets . Therefore, house prices in one location in India cannot impose a competitive constraint on house prices in other location, and as such a home owner can freely set the price of his house.

7.Future scope:

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. There are three factors that influence the price of a house which include physical conditions, concepts and location.