A.P.C. MAHALAXMI COLLEGE FORWOMEN, THOOTHUKUDI

DEPARTMENT OF MATHEMATICS (UA)

Project title : Analysing housing prices in metropolitan cities

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PROJECT REPORT TEMPLATE

1 INTRODUCTION

1.1 Overview:

Project aims to comprehensively analyse the housing prices and the urban living experience in major metropolitan cities across India. The objective is to provide valuable insights into the real estate market trends, affordability, and the quality of life in these cities.

1.2 Purpose:

The primary purpose of this project is to conduct a comprehensive analysis of housing prices and the urban

living experience in major metropolitan cities across India. The overarching goals are to provide valuable insights into the real estate market dynamics and the quality of life in these cities, aiding both policymakers and the general public in making informed decisions related to housing and urban living.

2. Problem definition and Design thinking
2.1   Empathy map
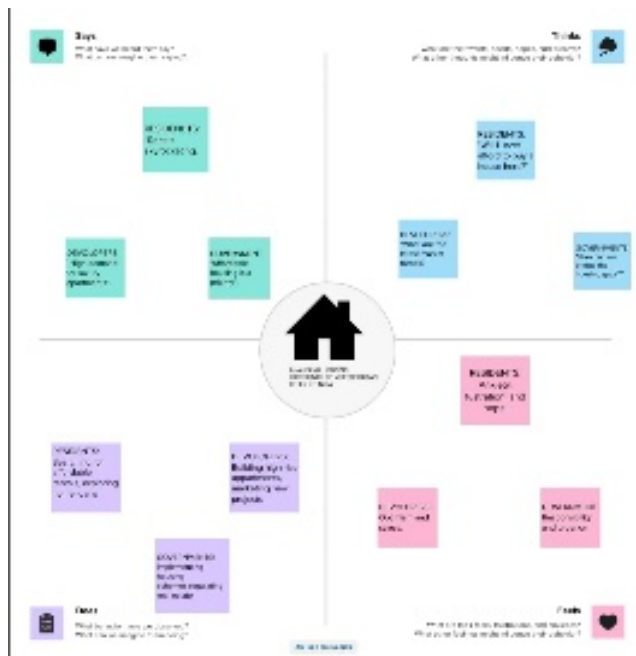
2.2 Ideation and brainstorming map

3.Result
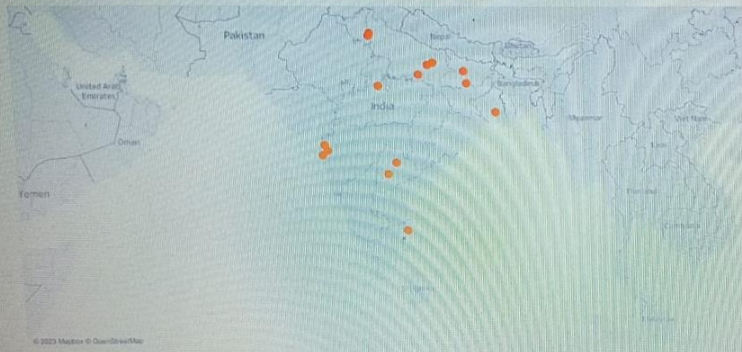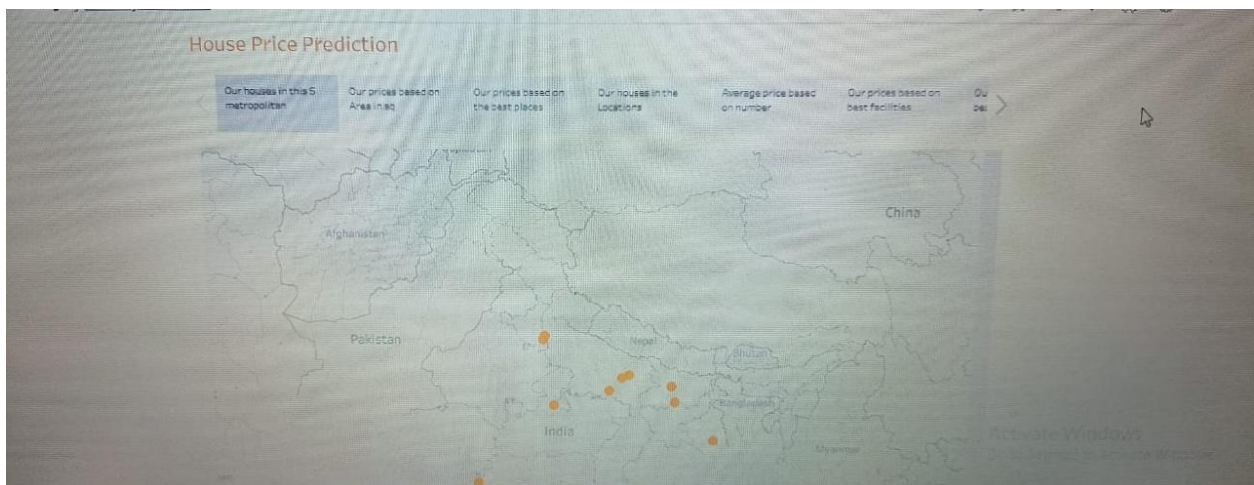

Dashboard 3.PDF   Dashboard 2.PDF   Dashboard 1.PDF   Dashboard 4.PDF   Story 1.PDF

HOUSE PRICE PREDICTION IN INDIA

Sheet 2

Area 1

	Price 1
1800	
1200	
1100	
1500	
1400	
1050	
900	
1000	
800	
650	
1150	
2000	
1250	

Sheet 3

Location 1

Location 1

Price 1
2,075,000 to 6,674,691...

Measure Names
Rain Water Harvesting

Vaastu Compliant
0 — 6,849

Sheet 4

Noida

Sheet 5

Sheet 9

Location 1

Area 1
200
210
216
225
225
239
240
245
250
252
254
275
283
285
299

Highlight Area 1

Measure Names
24X7Security
ATM
Cafeteria
Car Parking
Children's playarea
Club House
Dining Table
Golf Course
Gymnasium
Hospital
Indoor Games
Intercom
Jogging Track
Landscaped Gardens

Maintenance Staff   24X7Security
Landscaped Gardens   ATM
Jogging Track
Intercom   Cafeteria
Indoor Games   Car Parking
Hospital
Gymnasium   Club House
Gassconnection Dining Table

Sheet 8

Location 1			
Dum Dum	2,604,865,982	0	2,795
Garja	1,925,235,995	0	2,754
Mira Road East	5,346,703,982	0	4,084
New Town	5,727,955,986	0	6,282
Noida	2,037,262,995	0	6,849
Rajarhat	2,795,674,984	0	3,585
Rangra	3,093,748,993	0	3,303
Secunderabad	8,190,592,987	0	5,032

Intercom
2,754 — 6,849

Price 1
28 — 88

0 — 0

Price 1

House Price Prediction

| Our houses in this 5 metropolitan | Our prices based on Area in sq | Our prices based on the best places | Our houses in the Locations | Average price based on number | Our prices based on best facilities | Ou bes |

Afghanistan
Pakistan
India
Nepal
Bhutan
Bangladesh
Myanmar
China

4.Advantages and disadvantages

List of advantages:

Smart Investments: It helps people make wise choices when buying or selling homes, potentially earning them more money.

Economic Health: Housing prices can indicate how well the city's economy is doing, helping policymakers and investors.

Better Policies: Governments can create effective housing policies by understanding housing data, making homes more affordable.

Lifestyle Assessment: Housing conditions reflect the city's quality of life, influencing where people choose to live and work.

Improved Cities: By studying this data, city planners can enhance infrastructure, transportation, and amenities for residents' benefit.

List of disadvantages

Limited Affordability: Rising housing prices can make it difficult for many people to afford homes in these cities.

Speculation: Extensive analysis can sometimes lead to speculative bubbles in the real estate market, causing instabilit .

Gentrification: An exclusive focus on housing prices may contribute to the displacement of lower-income residents due to rising costs.

Overemphasis on Investment: People might prioritize housing as an investment rather than a place to live, affecting the housing market's stability.

Incomplete Picture: Relying solely on housing data might overlook other crucial aspects of urban development and residents' well-being.

5.Applications

Analysing housing prices in Indian metropolitan cities is vital for real estate investment, urban planning, affordable housing initiatives, economic indicators, rental market insights, risk assessment, demographic trends, and real estate development. The experience varies, with cities like Mumbai having high prices due to demand, while others may offer more affordability.

6. Conclusion

In summary, the housing prices and living experiences in India's metropolitan cities vary widely. While cities like Mumbai and Delhi have high property costs, Bangalore and Hyderabad offer attractive alternatives. Living in these cities provides diverse opportunities but also comes with challenges such as congestion and pollution. Decisions about housing in these cities should consider these factors carefully.

7 Future scope:

- Data Analytics and Machine Learning: With the availability of extensive housing data, there's a growing need for data analytics and machine learning to predict housing trends, price fluctuations, and investment opportunities.
- Affordable Housing: India faces a persistent challenge of providing affordable housing in

metropolitan areas. Research and policy development in this area are essential to address the housing needs of the urban population.

- Smart Cities: As urban areas evolve into smart cities, there's a demand for data-driven urban planning and infrastructure development, including housing solutions that integrate technology for sustainability and efficiency.
- Real Estate Technology (PropTech): The growth of PropTech is changing the way people buy, sell, and invest in real estate. Research into the impact of technology on the housing market can offer valuable insights.
- Government Policies and Regulations: The real estate sector is heavily influenced by government policies and regulations. Analyzing and predicting how changes in policies affect housing prices and demand is crucial.