

Project Report

1.INTRODUCTION

1.1 Overview

This Project is based on Analysing housing prices in Metropolitan areas of India. When analyzing house prices, several factors come into play. One must consider the location's proximity to essential amenities such as schools, hospitals, transportation hubs, and commercial districts.

Additionally, the overall economic growth and development of the city should be taken into account as it directly impacts property values. The demand-supply dynamics at both the micro and macro levels also influence prices significantly. Factors like population density, urbanization rate, and housing market trends contribute to this dynamic landscape. Understanding these intricate details allows analysts to discern the real estate cycles in metropolitan areas of India accurately

Furthermore, local policies and regulations regarding land use and construction approvals can have a profound effect on house prices by impacting supply constraints or facilitating new developments that attract buyers. In-depth analysis should include a thorough examination of historical price trends coupled with statistical modeling techniques to identify patterns and predict future price movements accurately.

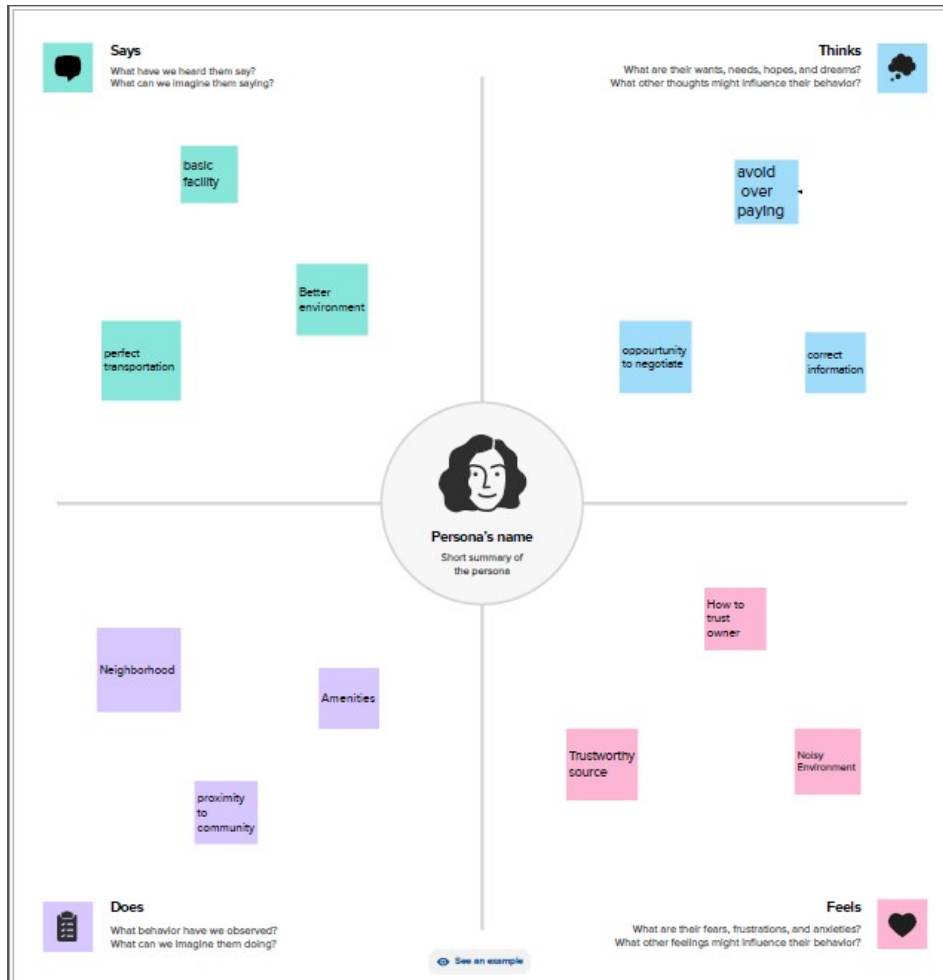
1.2 Purpose

The purpose for analyzing housing prices in metropolitan areas of India is to gain a comprehensive understanding of the real estate market and its implications. By studying housing prices, professionals can identify trends, patterns, and factors that contribute to fluctuations in the market.

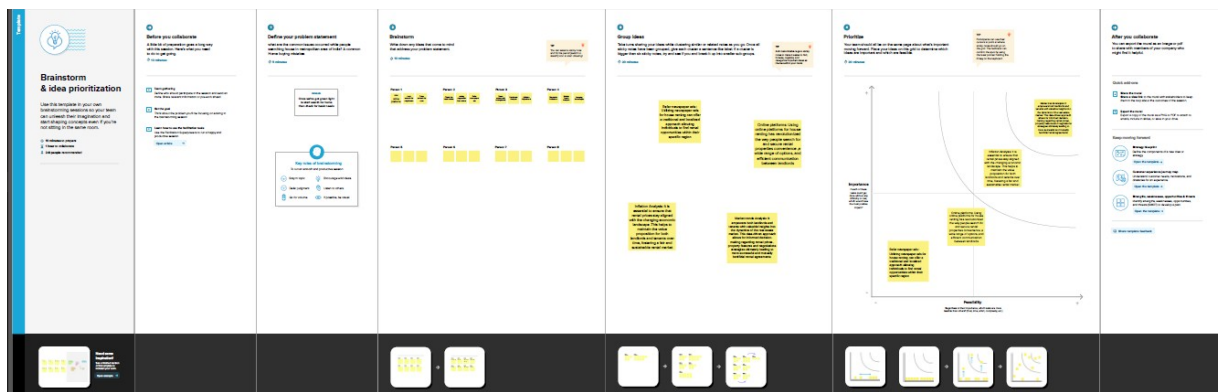
By conducting detailed research on these elements and scrutinizing historical data combined with current market trends using advanced statistical models and tools can provide invaluable insights for stakeholders including developers, investors, policymakers as well as potential homebuyers or renters looking for accurate information before making any decisions related to housing in metropolitan areas of India.

2.PROBLEMS DEFINITION &DESIGN THINKING

2.1 Empathy Map



2.2 Ideation & Brainstorming map



3.1 Bangalore

| Price | Area | Location | Year of Birth | Marital Status | Gender | Symmetry | Left Leg Length | Right Leg Length | Right Arm Length | Shooting Interval | Sports and Leisure | Clubhouse | School | 30-25 | 10-25 | Provisional | Card |
|-------|----------|----------------|---------------|----------------|--------|----------|-----------------|------------------|------------------|-------------------|--------------------|-----------|--------|-------|-------|-------------|------|
| 2 | 00000000 | 1340 JF Nager | 4 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 3 | 7888800 | 3900 Gossard | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 4 | 4888800 | 270 Karmar | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 5 | 8388800 | 1670 Dossard | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 6 | 4670000 | 1670 Karmar | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 7 | 6700000 | 1200 Horvath | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 8 | 20000000 | 2500 Thorsand | 4 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 9 | 7200000 | 1400 Rammar | 3 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| 10 | 4600000 | 1400 Whitefuss | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 11 | 30000000 | 1400 Whitefuss | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 12 | 7700000 | 1360 Whitefuss | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 13 | 5000000 | 1700 Arjaputra | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 |
| 14 | 8700000 | 1700 Arjaputra | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 15 | 5100000 | 1100 Karmar | 2 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 16 | 4107000 | 1400 Whitefuss | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 17 | 30000000 | 1700 Arjaputra | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 18 | 7200000 | 1310 Bellard | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 19 | 3700000 | 1200 JF Nager | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 20 | 30000000 | 1200 JF Nager | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 21 | 7800000 | 3900 Dossard | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 22 | 4800000 | 1170 Karmar | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 23 | 8200000 | 1700 Dossard | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 24 | 30000000 | 1670 Karmar | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 25 | 6707000 | 1200 Horvath | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 26 | 20000000 | 2500 Thorsand | 4 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 27 | 7000000 | 1400 Rammar | 3 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |

3.3 Delhi

| Tel Home Page Layout Formula Data Review View Help Tell me what you want to do | | | | | | | | | | | | | | | | | | | | |
|--|----------|-----------------|----------------|-------------|-----------|----------|-------------|---------|--------|-----------|---------------------|----------|-------------------|-----|-----------|---------|-------|-------|----------|---|
| A1 | | Price | | | | | | | | | | | | | | | | | | |
| | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U |
| 1 | Area | Location | No. of Beaches | Maintenance | Gymnasium | Swimming | Landscaping | Jogging | Tennis | Rainwater | Indoor for Shopping | Shopping | Indoor for Sports | ATM | Clubhouse | 240 Sec | Power | Water | Car Park | |
| 2 | 10000 | 1200 Sector 10 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 3 | 6000000 | 1000 Uttam Nuj | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4 | 15000000 | 1100 Sartan Vih | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5 | 2000000 | 400 Uttam Nuj | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 5000000 | 900 Dwarika Mt | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 15000000 | 1800 Sector D | 4 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| 8 | 15400000 | 1200 Sector D | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 15500000 | 1800 Sector D | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 4000000 | 1000 Sector 23 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 11 | 12000000 | 1300 Mayap Vih | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 11000000 | 1000 Sector 24 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 12000000 | 1200 Sector 11 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 14 | 14000000 | 1800 Sector 23 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 1000000 | 800 Sector 12 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 3000000 | 365 Sector 23 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | 1.1E+48 | 2500 West End | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | 5000000 | 1000 Dwarika Mt | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | 17000000 | 1200 Sector M | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | 1000000 | 1000 Dwarika Mt | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | 16000000 | 1600 Sector D | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 10500000 | 1200 Sector 10 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 23 | 4000000 | 1000 Uttam Nuj | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 24 | 15000000 | 1100 Sartan Vih | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 2000000 | 400 Uttam Nuj | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 5000000 | 900 Dwarika Mt | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 15000000 | 1800 Sector D | 4 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| Del | | | | | | | | | | | | | | | | | | | | |

3.5 Kolkata

| File | Home | Insert | Page Layout | Formulas | Data | Review | View | Help | Tell me what you want to do |
|----------|----------------|----------------|-------------|-----------|----------|-----------|---------|------|-----------------------------|
| A1 | | | | | | | | | |
| Price | | | | | | | | | |
| | B | C | D | E | F | G | H | I | J |
| Price | Location | No. of Benches | Maintenance | Gymnasium | Swimming | Landscape | Inggris | IT | Kanariku |
| 2230000 | 953 Baretan | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 3660999 | 1111 Kehtopuji | 2 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| 3770000 | 1050 Rajahat | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| 2530000 | 935 Narendari | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| 4000000 | 765 New Town | 3 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 1700000 | 1179 Jaka | 3 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| 8170000 | 1107 Tamga | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| 3372999 | 954 Senarup | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| 1009999 | 1154 Senarup | 3 | 0 | 1 | 1 | 1 | 1 | 0 | 1 |
| 4000000 | 1042 Mandaraja | 4 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 13000000 | 2202 Dum Dum | 4 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 3610000 | 970 New Town | 2 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| 14300000 | 765 New Town | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 1400000 | 1085 Chikara | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1700000 | 827 Toghyan | 3 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| 13000000 | 760 Saruna | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1850000 | 770 Utsadanga | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1700000 | 2965 Mahaduta | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| 9100000 | 1137 New Alipi | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4000000 | 5090 Mahaduta | 4 | 1 | 0 | 1 | 0 | 1 | 1 | 1 |
| 2230000 | 1056 Barasat | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| 3660999 | 1111 Kehtopuji | 2 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| 3770000 | 1050 Rajahat | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2530000 | 935 Narendari | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 4000000 | 765 New Town | 3 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 1700000 | 1179 Jaka | 3 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |

3.2 Chennai

| Area | Location | No. of Residents | Manitoba | Dynasty | Seminole | Landings | Seagrass | Paradise | Indosora | Shoppings | Intercom | Sports | Clubhouse | School | 24x7 | Power | Cellular |
|----------|------------------|------------------|----------|---------|----------|----------|----------|----------|----------|-----------|----------|--------|-----------|--------|------|-------|----------|
| 13100000 | 1127 Kungah | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5100000 | 1126 Matheval | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8200000 | 1267 Karpasuki | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| 2440000 | 1400 Thiruvallur | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10100000 | 1200 Jeyapethi | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9200000 | 135 Vellavulu | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| 9000000 | 1267 Karpasuki | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2220000 | 864 Kundurthi | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5520000 | 366 Peralmal | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4120000 | 3145 Kuthal | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3440000 | 510 Selayur | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11600000 | 1260 Thorapadi | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 6100000 | 1245 Karpasuki | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24200000 | 1545 Anna Naga | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8100000 | 1205 Miggapadi | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6100000 | 1113 Thollagan | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9610000 | 1479 Miggapadi | 3 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7940000 | 1246 Thollagan | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 |
| 6100000 | 1112 Medavathi | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2170000 | 465 Aadi | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 5500000 | 1210 Thiruvallur | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1310000 | 1126 Matheval | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8400000 | 1307 Karpasuki | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |
| 23400000 | 3600 Thiruvallur | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10100000 | 1200 Jeyapethi | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2100000 | 135 Vellavulu | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |

3.4 Hyderabad

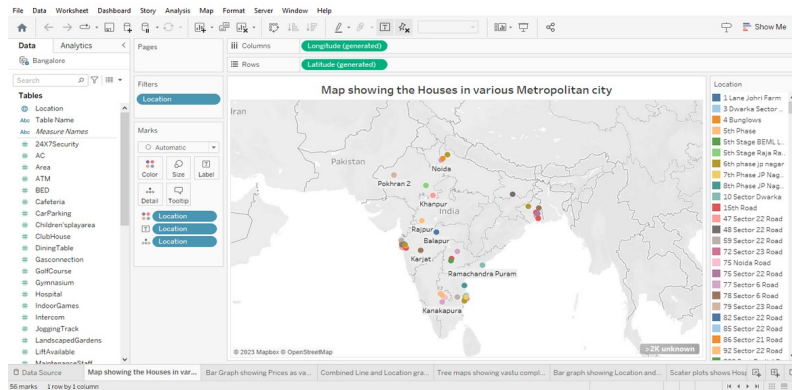
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3.6 Mumbai

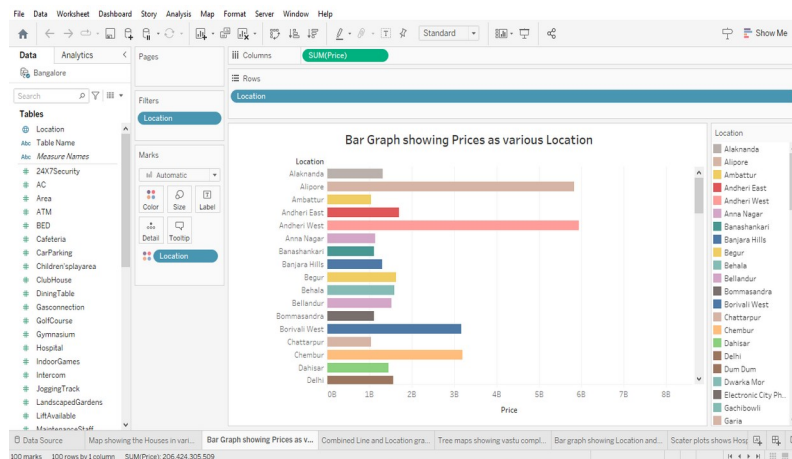
| File | Home | Insert | Page Layout | Formulas | Data | Review | View | Help | Tell me what you want to do | | | | | | | | | | | | | |
|-------|----------|----------------|-----------------|-------------|-----------|----------------|----------|---------------|-----------------------------|---------------|----------|-----------|-----|---|------------------|---|---|---|---|---|---|--|
| A1 | | | | | | | | | | | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | |
| Price | Area | Location | No. of Beresale | Maintenance | Gymnasium | Swimming Pools | Insignia | Fac-Railroads | Indoor/Facility | Shopping/Park | Intercom | Spinn-Fac | ATM | | Clubhouse/School | | | | | | | |
| 2 | 405000 | 720 Khanghar | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 3 | 450000 | 600 Khanghar | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | |
| 4 | 870000 | 650 Khanghar | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | |
| 5 | 900000 | 650 Khanghar | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 6 | 500000 | 665 Khanghar | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | |
| 7 | 1700000 | 2005 Khanghar | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 8 | 1250000 | 1550 Khanghar | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 9 | 1000000 | 1375 Sector-13 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | |
| 10 | 1100000 | 1150 Khanghar | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 11 | 1300000 | 1600 Khanghar | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 12 | 8700000 | 980 Khanghar | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 13 | 900000 | 1000 Khanghar | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | |
| 14 | 1300000 | 1060 Khanghar | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 15 | 6500000 | 2050 Khanghar | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 16 | 930000 | 1155 Khanghar | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 17 | 10500000 | 1150 Khanghar | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 18 | 800000 | 1250 Sector 18 | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | |
| 19 | 950000 | 990 Khanghar | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 20 | 810000 | 2075 Khanghar | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 21 | 990000 | 1150 Khanghar | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 22 | 800000 | 1150 Khanghar | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 23 | 900000 | 1060 Khanghar | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 24 | 420000 | 480 Khanghar | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | |
| 25 | 1800000 | 2470 Khanghar | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 26 | 4000000 | 2100 Khanghar | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 27 | 1600000 | 2200 Khanghar | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |

4.VISUALIZATIONS

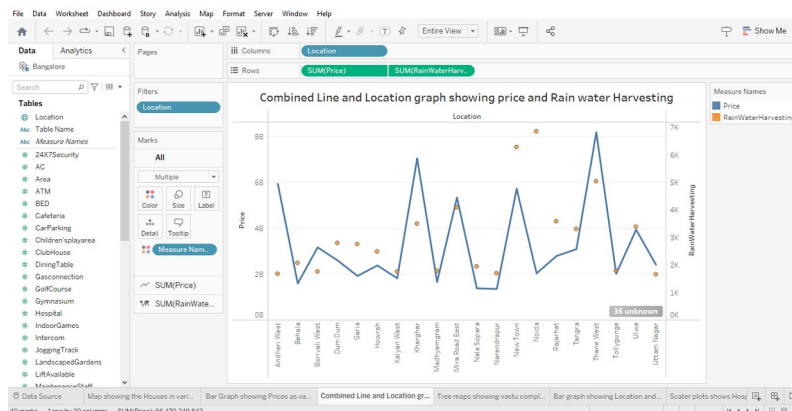
4.1 Latitude and Longitude based on Location



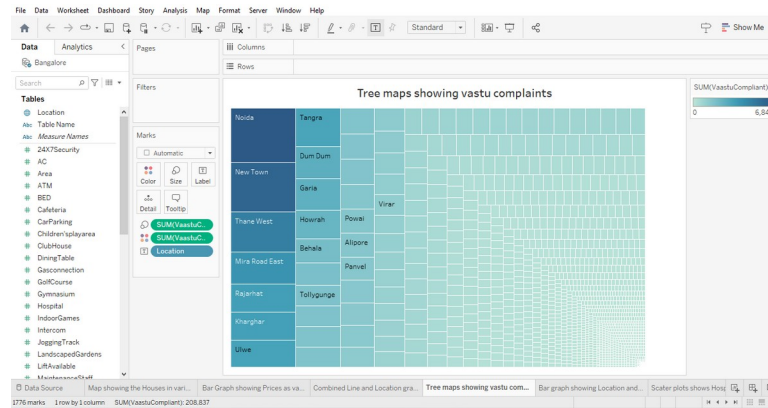
4.2 Number of houses based on area



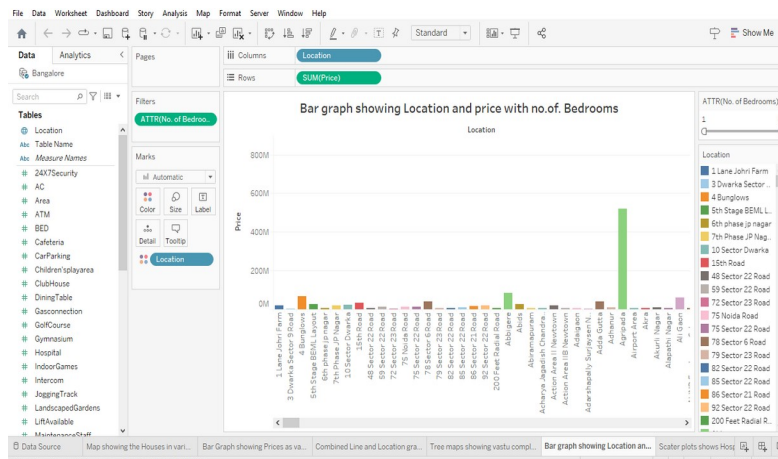
4.3 Houses price based on rainwater harvest pits



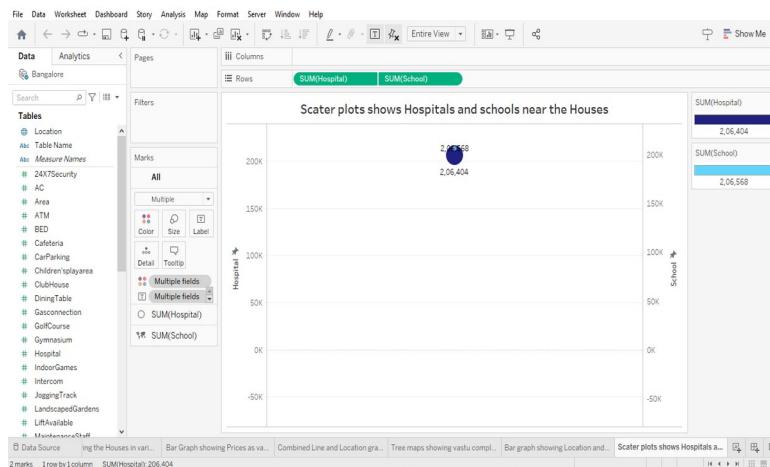
4.4 Vastu-complains based on location



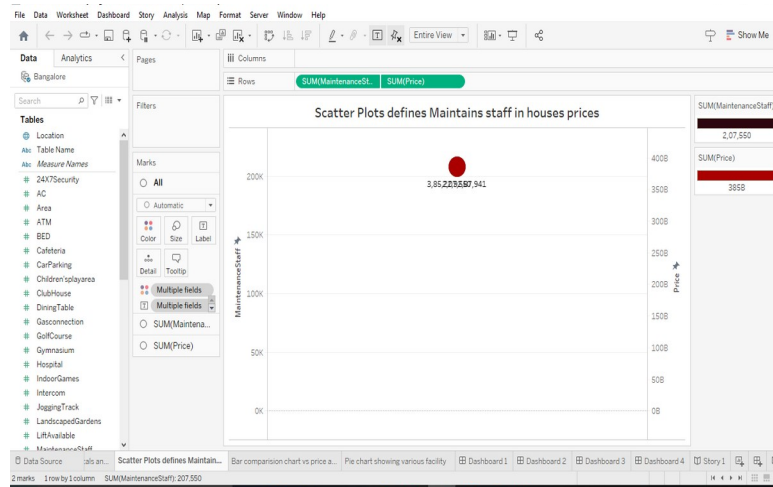
4.5 House price based on Number of Bedrooms



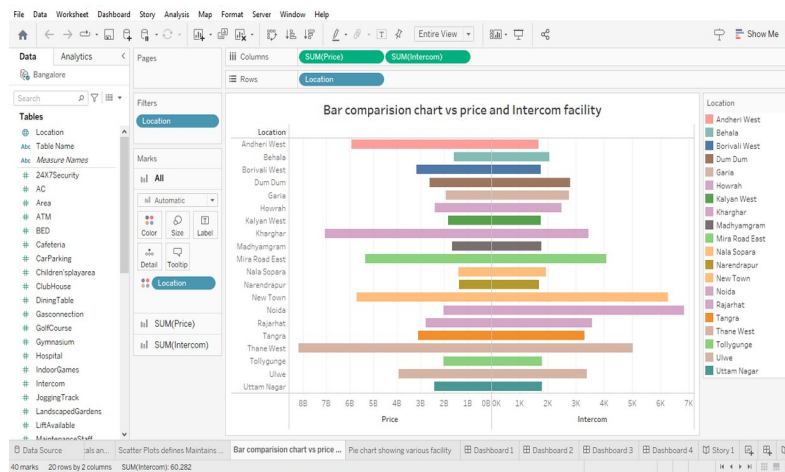
4.6 Hospitals and schools near the Houses



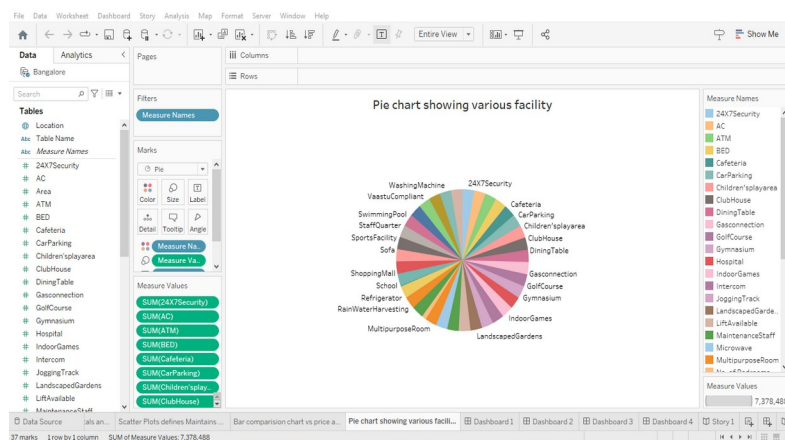
4.7 Maintains staff in houses prices



4.8 House Price and Intercom

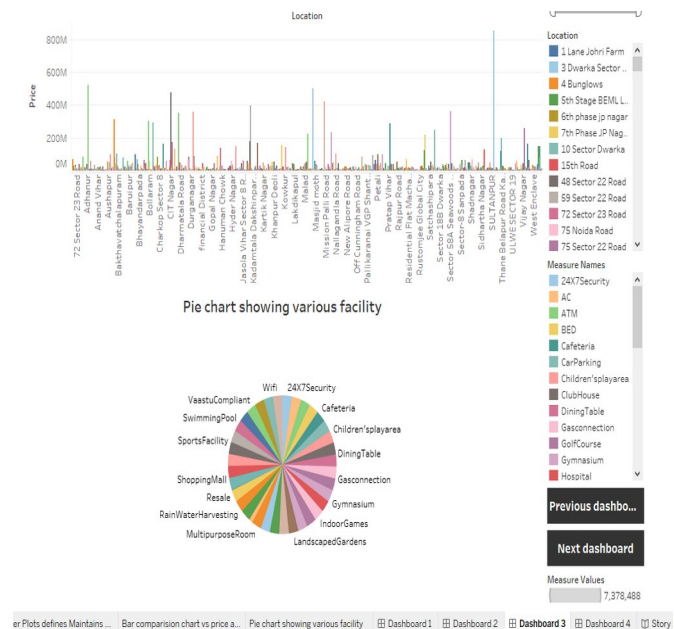
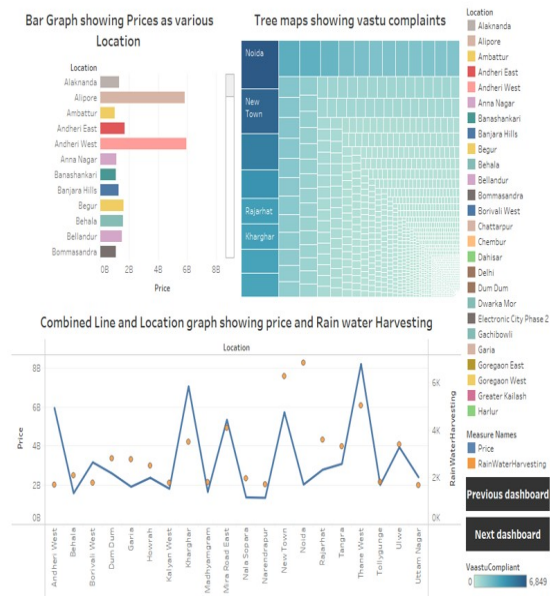
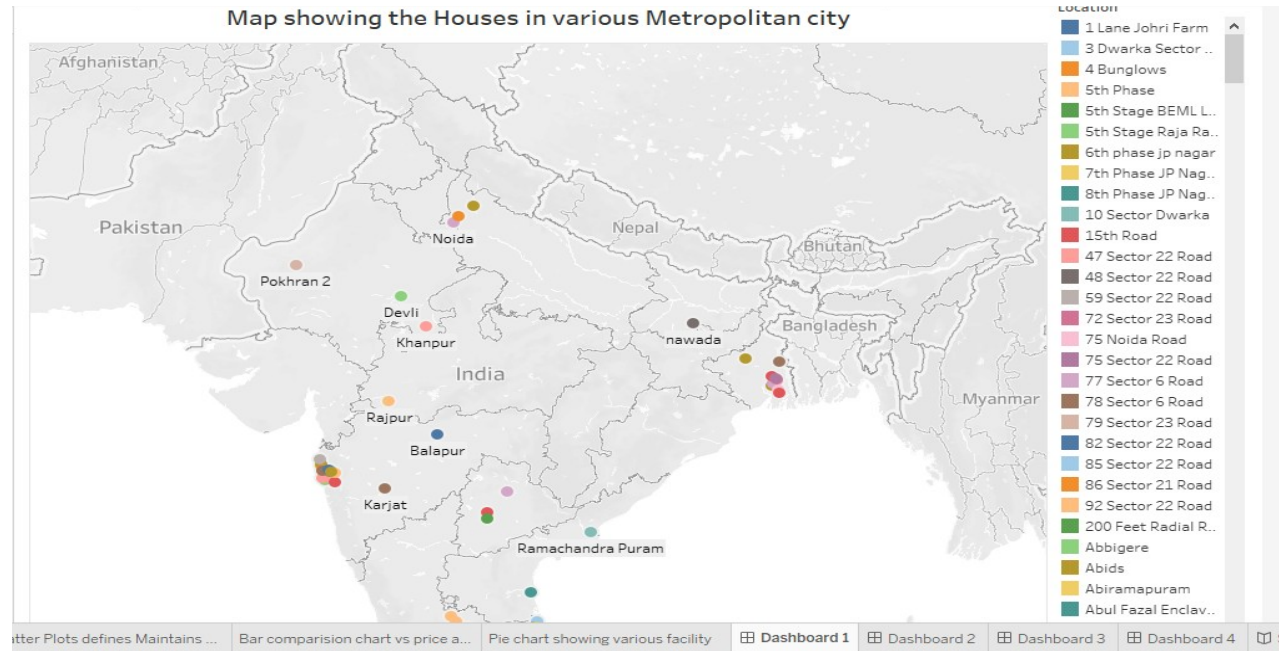


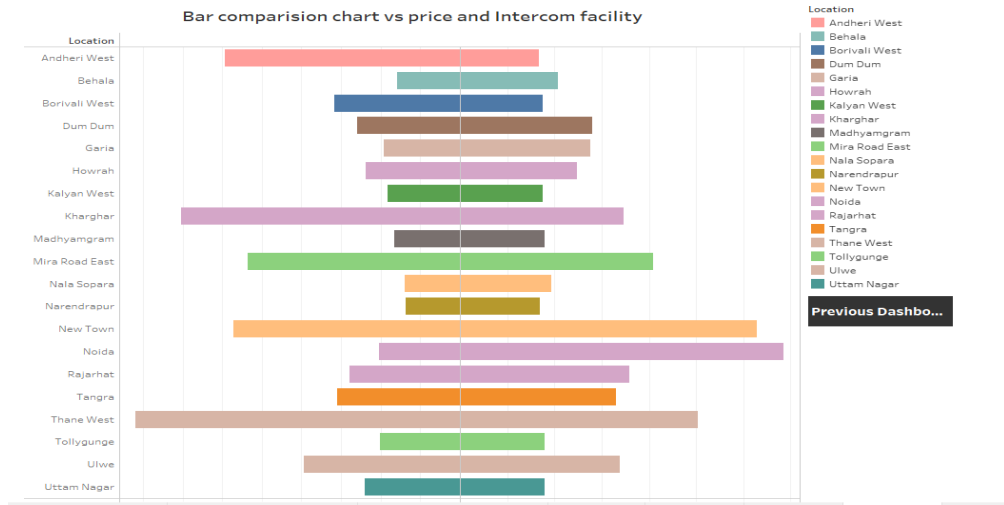
4.9 All Services based on locations



5.RESULT

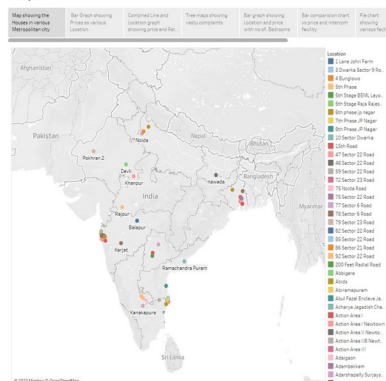
5.1 Dashboard



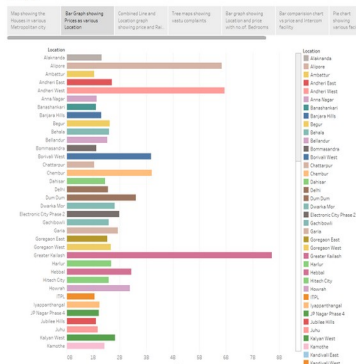


5.2 Story

Story 1



Story 1



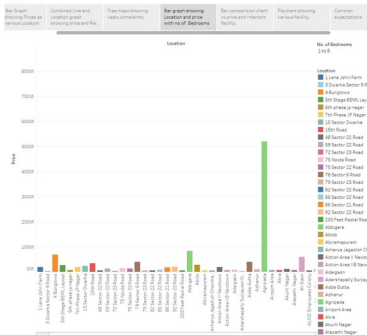
Story 1



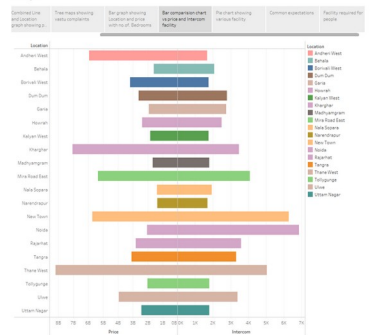
Story 1

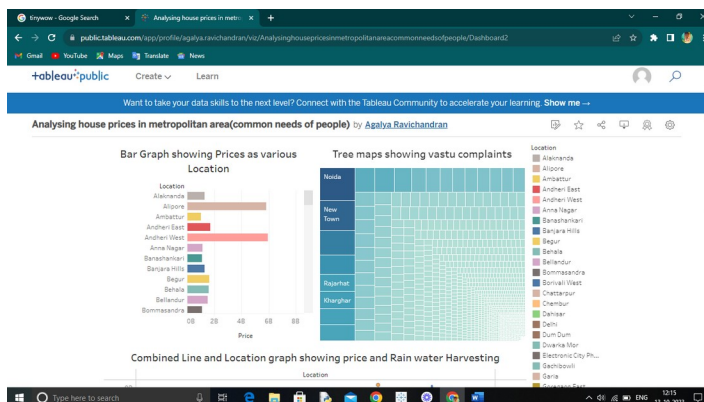
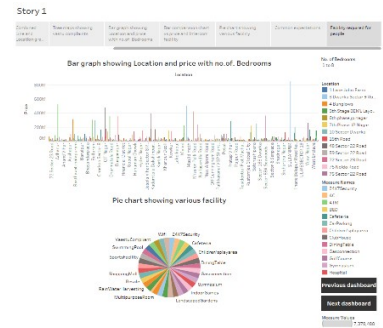


Story 1



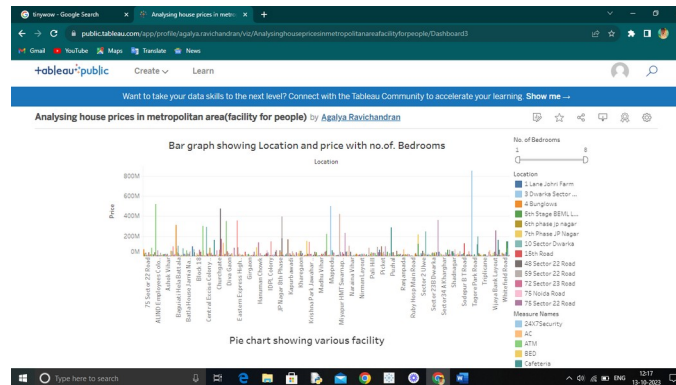
Story 1





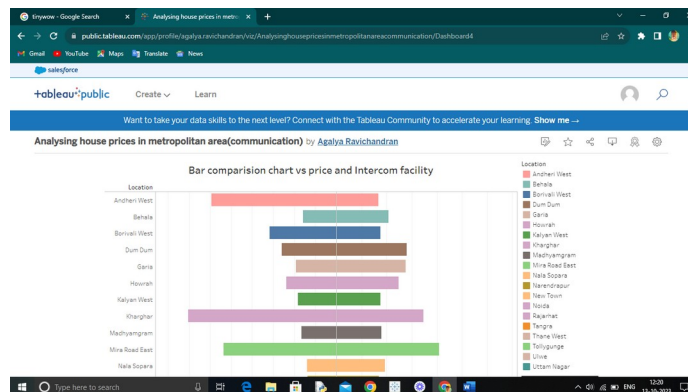
6.3 Dashboard 3

<https://public.tableau.com/app/profile/agalya.ravichandran/viz/Analysinghousepricesinmetropolitanareafacilityforpeople/Dashboard3?publish=yes>



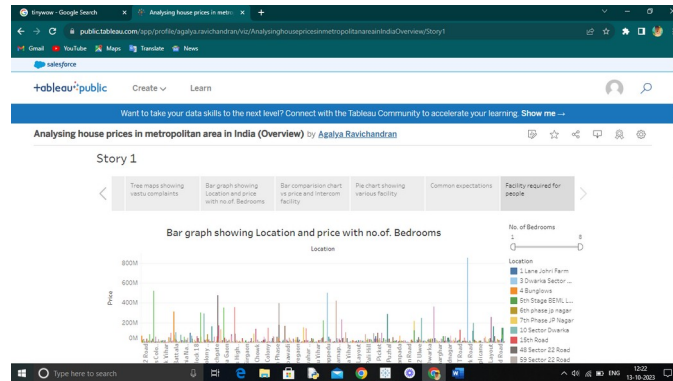
6.4 Dashboard 4

<https://public.tableau.com/app/profile/agalya.ravichandran/viz/Analysinghousepricesinmetropolitanareacommunication/Dashboard4?publish=yes>



6.5 Story

<https://public.tableau.com/app/profile/agalya.ravichandran/viz/AnalysinghousepricesinmetropolitanareainIndiaOverview/Story1?publish=yes>



7.ADVANTAGES & DISADVANTAGES

Advantages

- Firstly, it allows professionals to identify trends and patterns that can help them make informed investment decisions.
- By studying fluctuations in house prices over time, analysts can identify areas with potential high growth rates or declining markets, enabling them to direct investments towards profitable ventures.
- Understanding these dynamics helps professionals tailor their strategies to effectively cater to specific target markets.
- Overall, a detailed analysis of house prices in Indian metropolitan areas is crucial for industry professionals to navigate the complex world of real estate and make data-driven decisions that maximize returns on investment while contributing positively to societal needs.

Disadvantages

- One of the major disadvantages is the volatility and lack of transparency in the real estate market.
- Unlike developed countries where data on property sales, value assessments, and historical trends are readily available, India lacks a robust system for collecting and disseminating accurate information.
- This makes it difficult to accurately analyze house prices as there are often discrepancies between reported prices and actual transactions.
- Therefore, an informed analysis of these multiple variables is crucial for accurately assessing house prices in India's metropolitan areas.

8.APPLICATIONS

- Analyzing house prices India is a critical task that requires expertise and meticulous attention to detail. The Indian real estate market is characterized by its complexity, diversity, and constant fluctuations.
- By employing advanced analytical techniques, such as data mining and predictive modeling, professionals can identify patterns and trends in house prices based on various factors including location, amenities, connectivity, infrastructure development, economic growth, and demographic changes.
- Therefore, thorough examination of house prices in Indian metropolitan areas not only contributes to an improved understanding of the real estate market but also plays a significant role in shaping the socio-economic landscape of the country.

9.CONCLUSION

In conclusion, analyzing house prices in the metropolitan areas of India requires a comprehensive understanding of various factors that influence the real estate market. Firstly, one must consider the location and connectivity of the property, as houses located in prime areas with good transportation facilities tend to have higher prices.

10.FUTURE SCOPE

The future scope for analyzing housing prices in metropolitan areas in India appears promising and ripe with potential. As the demand for affordable housing continues to surge, coupled with rapid urbanization and population growth, there lies an opportunity for professionals to delve deeper into this market. Technological advancements such as data analytics, machine learning, and artificial intelligence can play a pivotal role in understanding the complexities of these housing markets.

