

Project Name:

♦Analysing Housing Prices In
Metropolitan Areas Of India

NM2023TMID06291

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Team Details

| S.No | Members role | Name | NM ID |
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Project Description

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 update, 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.

Purpose

- House price prediction in a metropolitan city in India is a valuable solution for potential home buyers, real estate and investors.
- The sale data, property details and Location-specific information, a predictive model can accurately estimate house prices.

Empathy Map



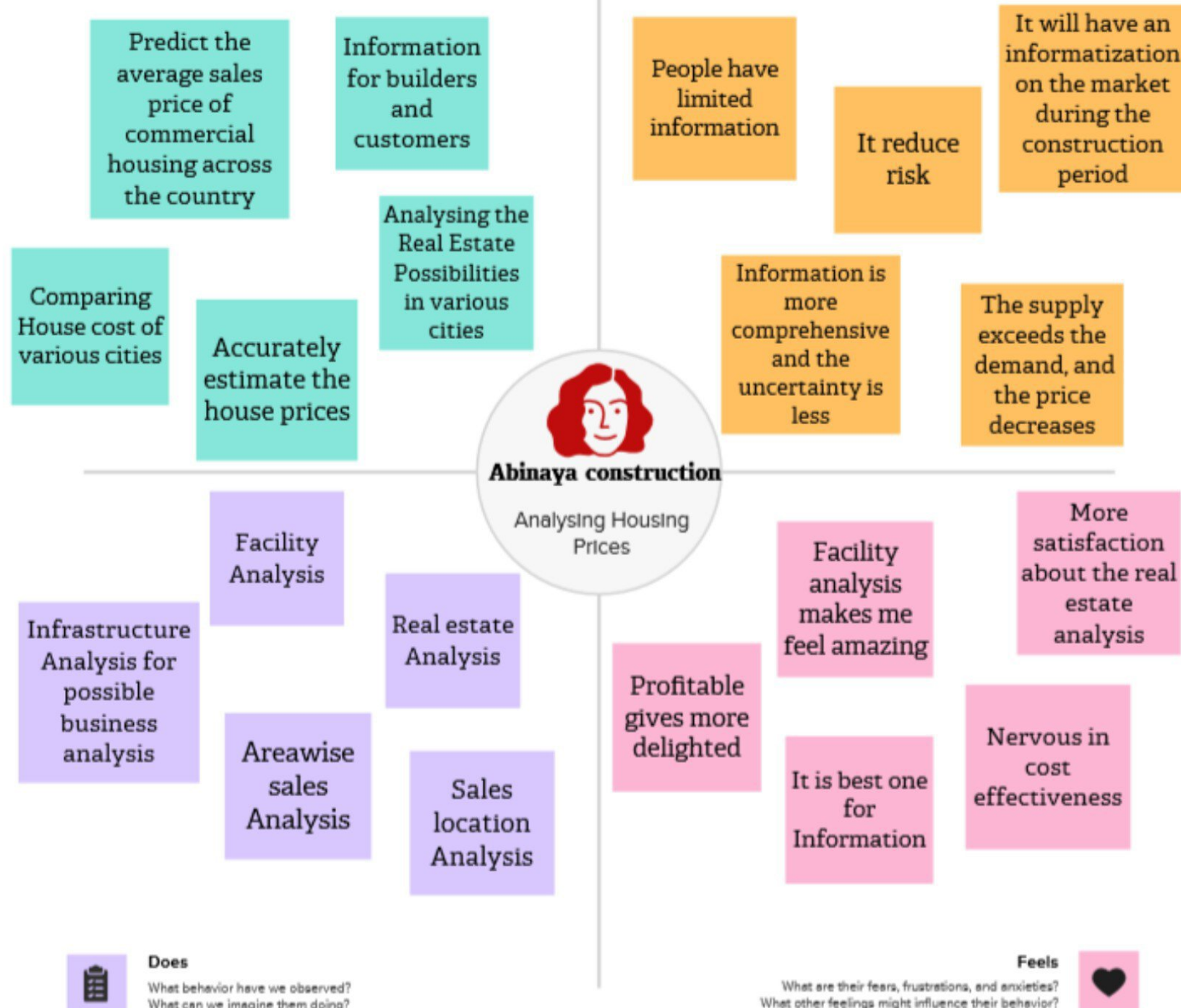
Says

What have we heard them say?
What can we imagine them saying?



Thinks

What are their wants, needs, hopes, and dreams?
What other thoughts might influence their behavior?



Brainstorming map



Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

- 10 minutes to prepare
- 1 hour to collaborate
- 24 people recommended

Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

- Team gathering**
Define who should participate in the session and send an invite. Share relevant information or previous ideas.
- Set the goal**
Think about the problem you'll be focusing on during the brainstorming session.
- Learn how to use the facilitation tools**
Use the Facilitation Superpowers to run a happy and productive session.

[Open article](#)

Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes

How Might We
Define what you're looking for in a solution. Focus on the problem, not the solution. Use the Facilitation Superpowers to define your problem statement.

Key rules of brainstorming
To run an smooth and productive session

- Stay in topic
- Encourage wild ideas
- Defer judgment
- Listen to others
- Be generous
- If possible, be visual

Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

Tip
You can write a sticky note and stick it to the board. Or you can use the Facilitation Superpowers to create a sticky note.



Group ideas

Take time sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

20 minutes

Tip
Use the Facilitation Superpowers to create a sticky note and stick it to the board. Or you can use the Facilitation Superpowers to create a sticky note.



How does it work?
This is the order of the session as shown in your map.

[Open example](#)

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This is the order of the session as shown in your map.

[Open example](#)

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Activate Windows
Go to Settings to activate Windows

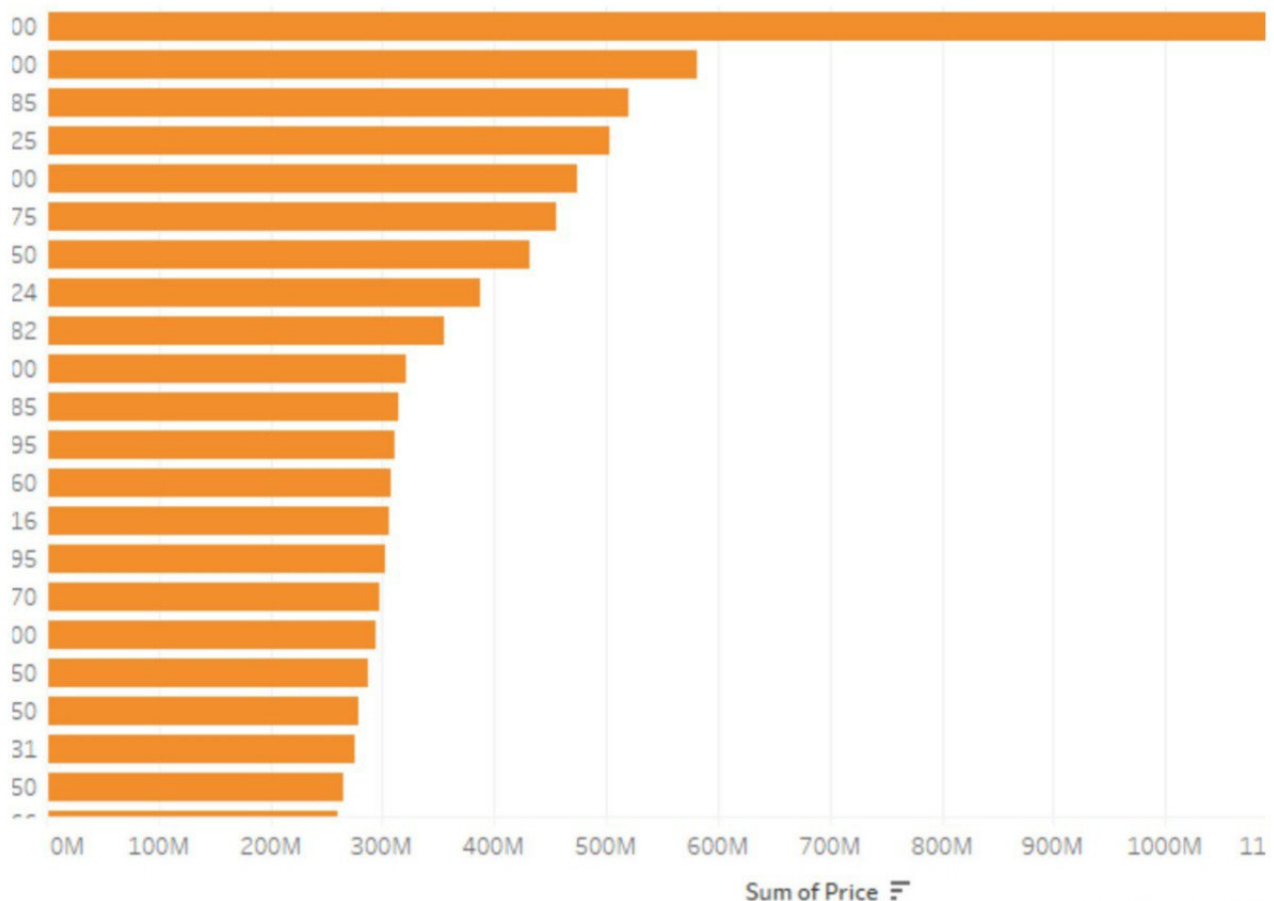
Sheet 1

HOUSE PRICE PREDICTION IN INDIA



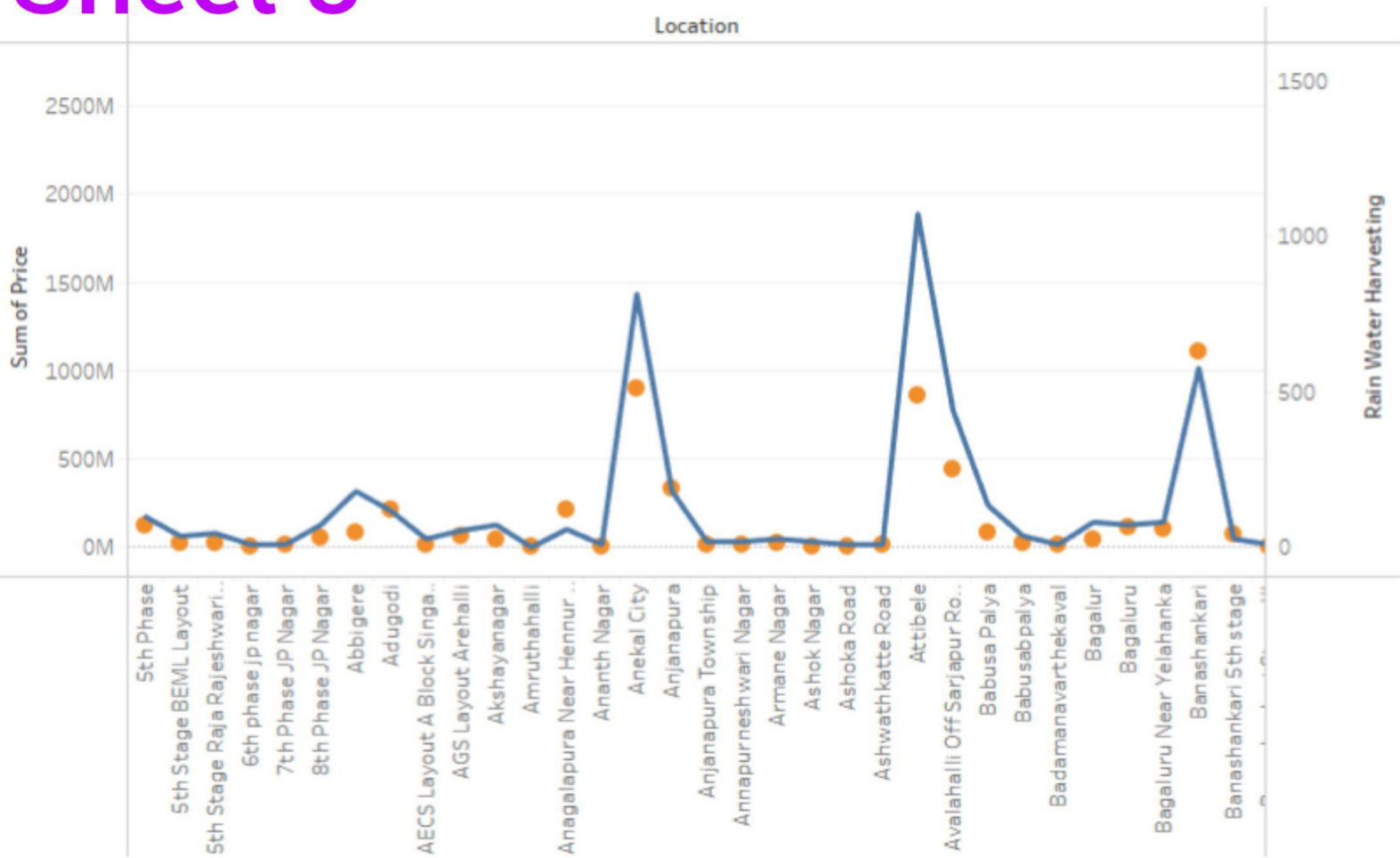
Sheet 2

Houses based on area sqf



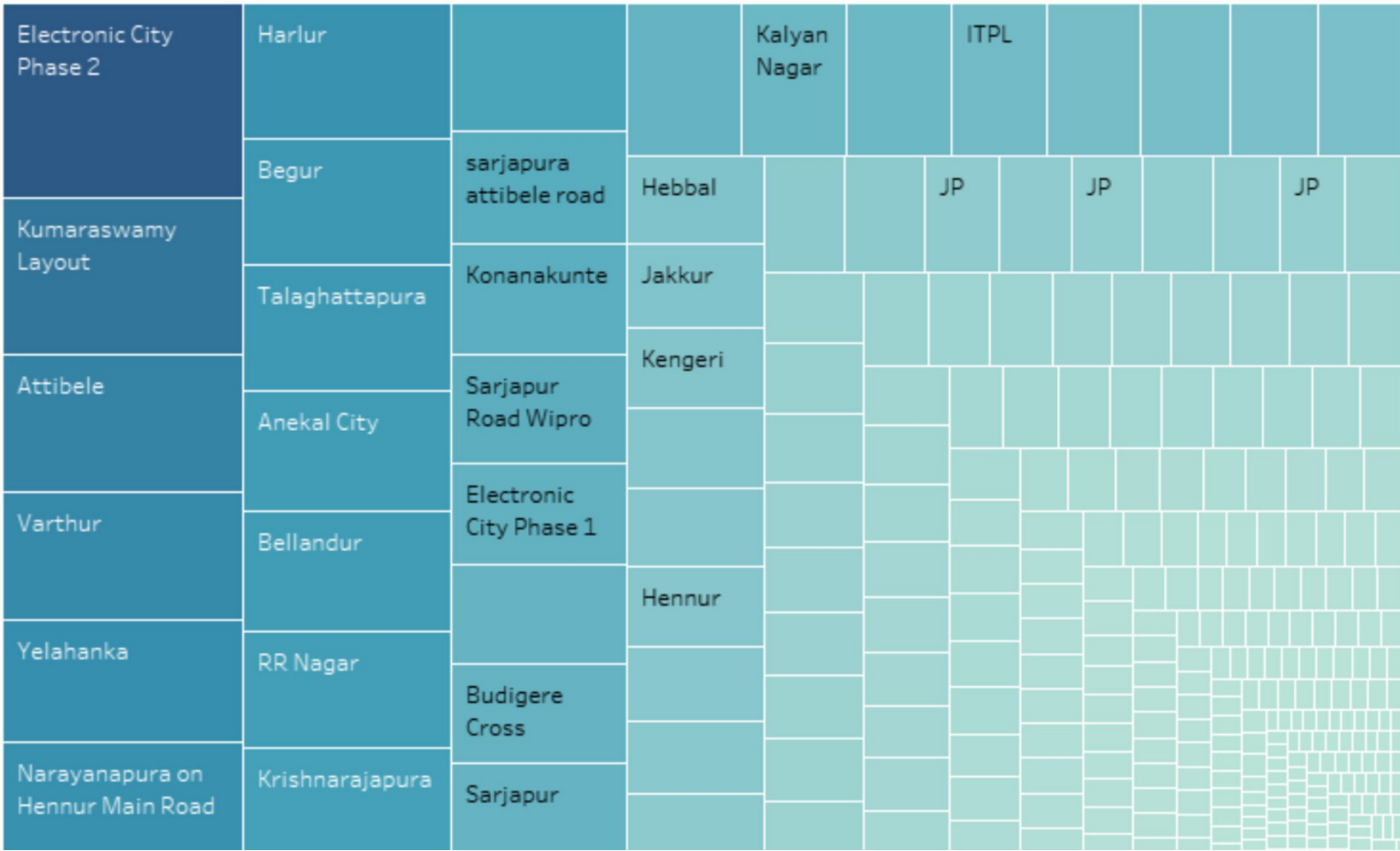
Sheet 3

House price based on rainwater harvest

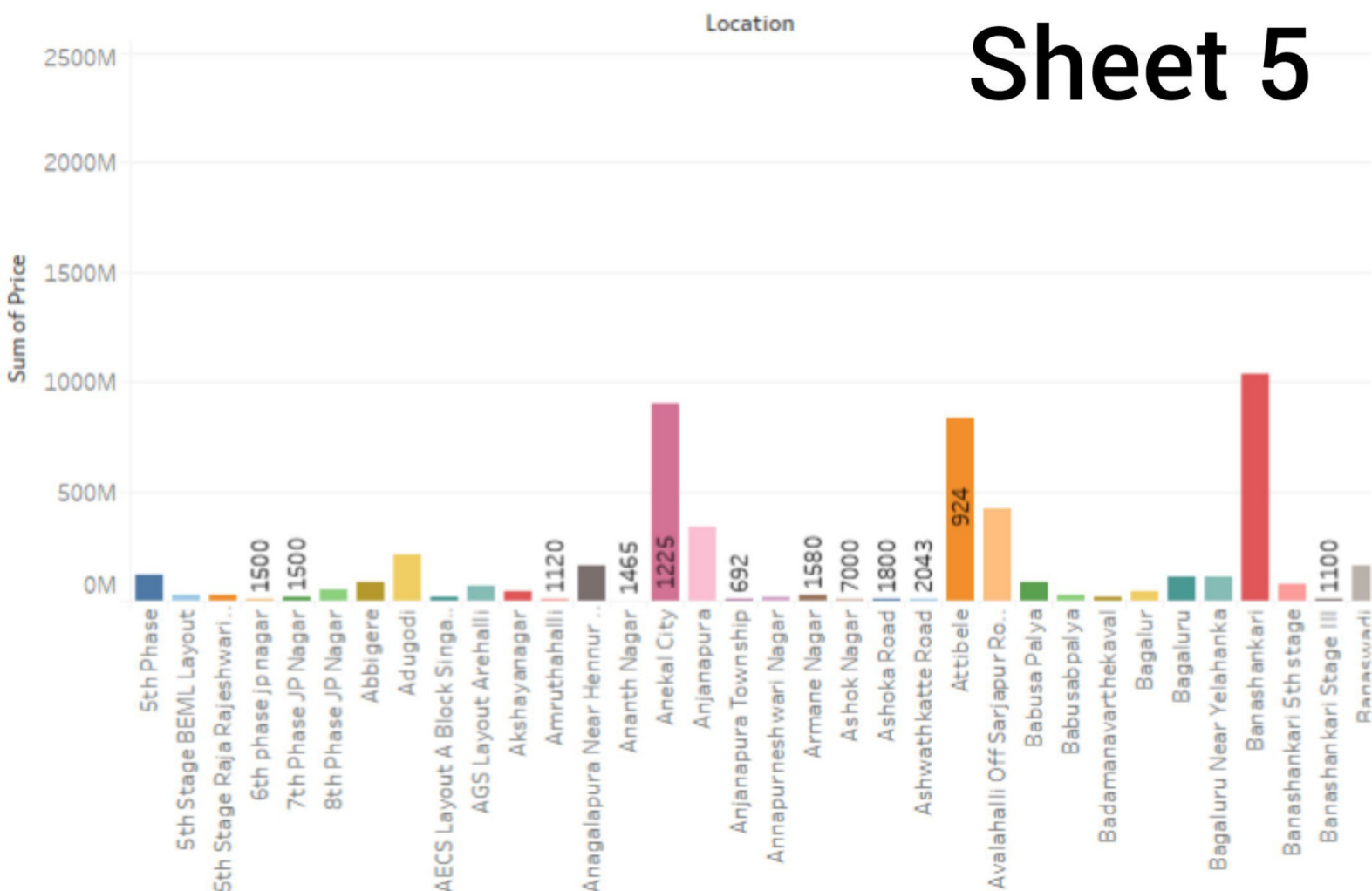


Sheet 4

Vastu complaints based on location

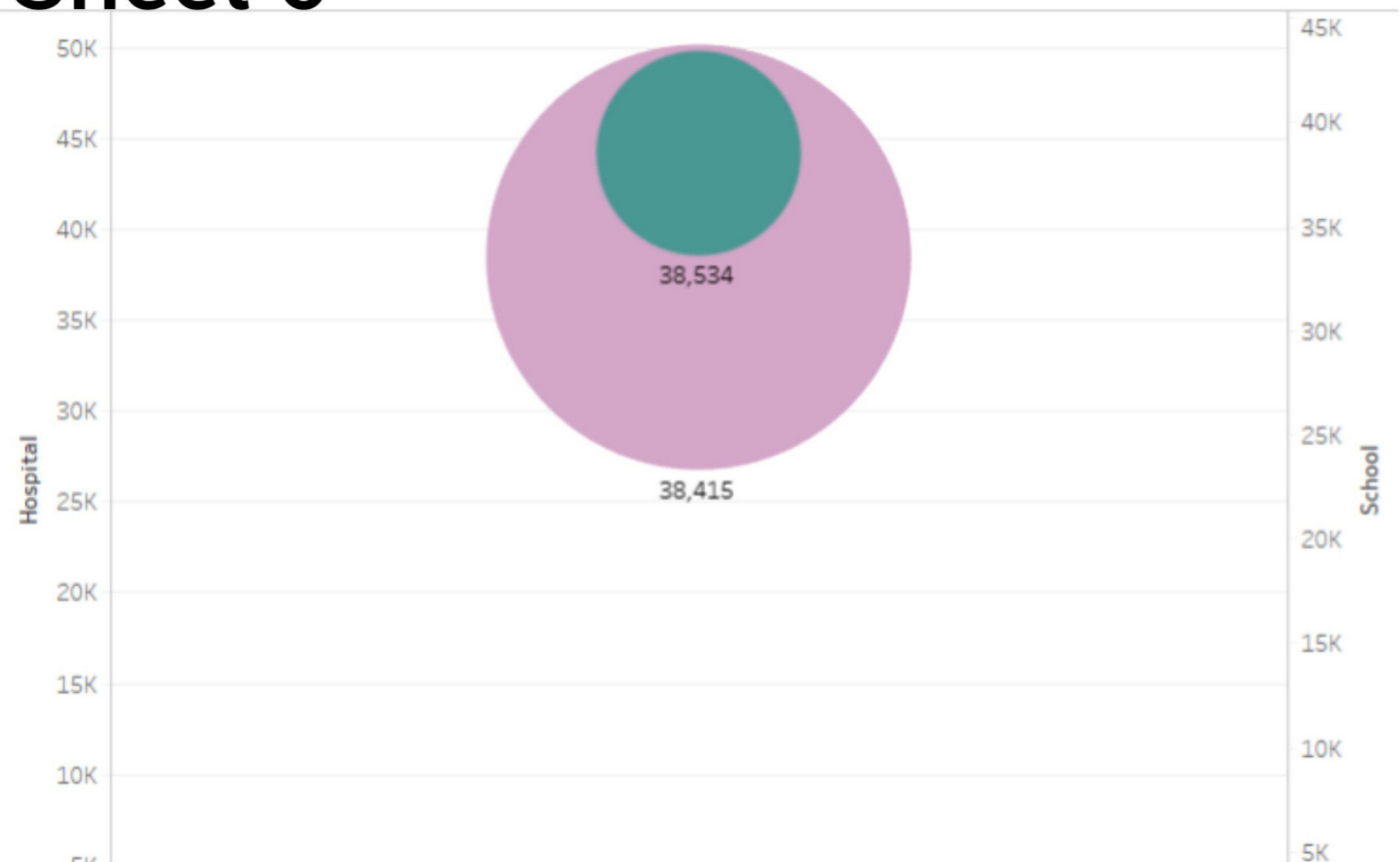


Sheet 5

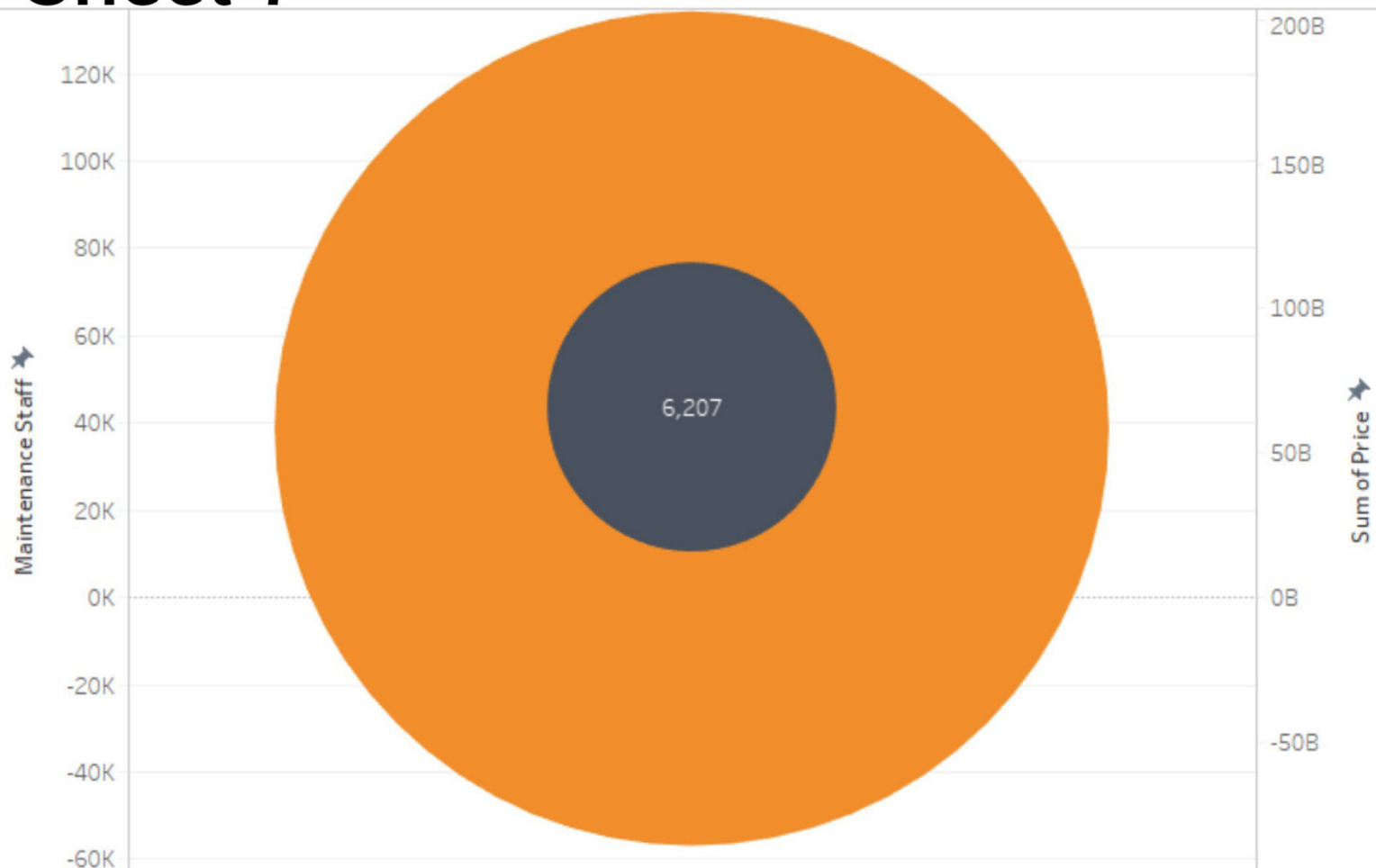


Sheet 6

Hospitals and schools near the houses



Maintains staff in houses prices

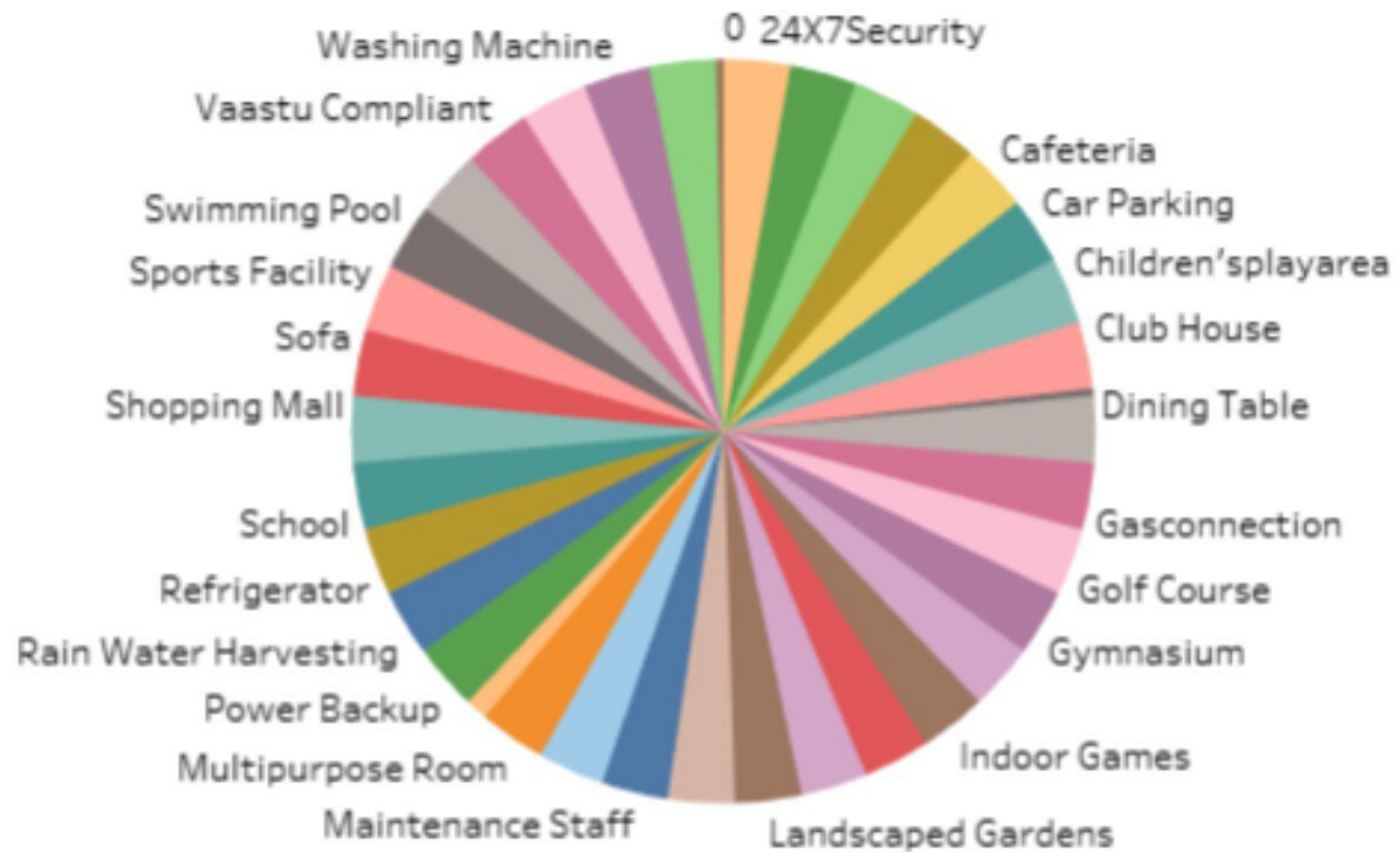


House prices and intercom

| Location | 2017 | 2018 | 2019 |
|---------------------------|------|------|------|
| 5th Stage BEML Layout | 0 | 4 | 4 |
| Abbigere | 20 | 20 | 20 |
| AECS Layout A Block Sing. | 0 | 3 | 3 |
| Akshayanagar | 0 | 8 | 8 |
| Anekal City | 95 | 95 | 95 |
| Bagalur | 0 | 9 | 9 |
| Banashankari Stage III | 0 | 1 | 1 |
| Chandapura Anekal Road | 20 | 20 | 20 |
| Channasandra Layout | 0 | 4 | 4 |
| Electronic City Phase 2 | 232 | 232 | 232 |
| Electronics City | 0 | 12 | 12 |
| Hennur | 44 | 44 | 44 |
| Hennur Main Road | 0 | 3 | 3 |
| HSR Layout | 0 | 8 | 8 |
| Hulimavu | 0 | 25 | 25 |
| JP Nagar Phase 4 | 44 | 44 | 44 |
| Kalyan Nagar | 0 | 58 | 58 |

Sheet 9

All services based on location

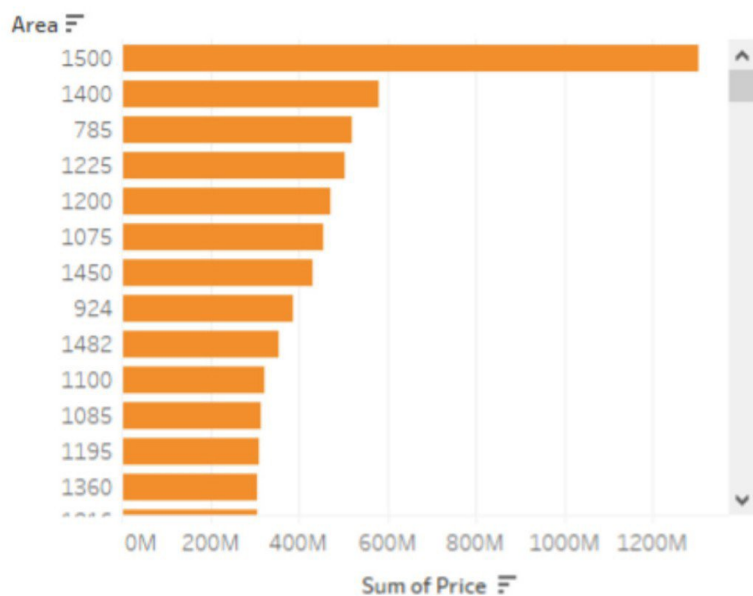


Dashboard 1

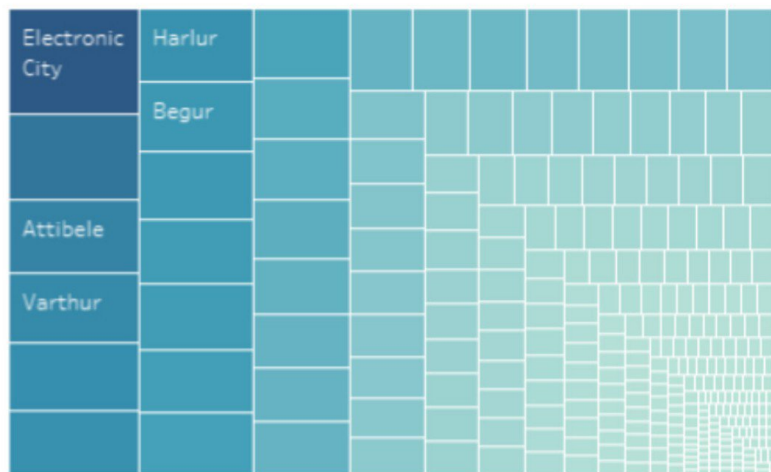
HOUSE PRICE PREDICTION IN INDIA



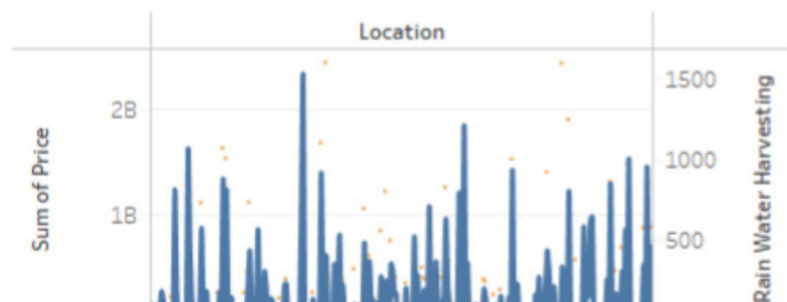
Houses based on area sqf



Vastu complaints based on location

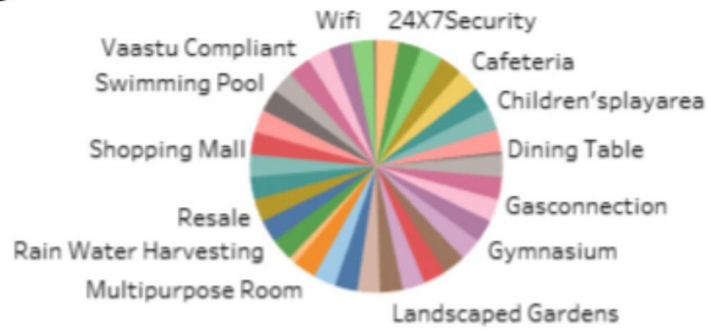


House price based on rainwater harvest

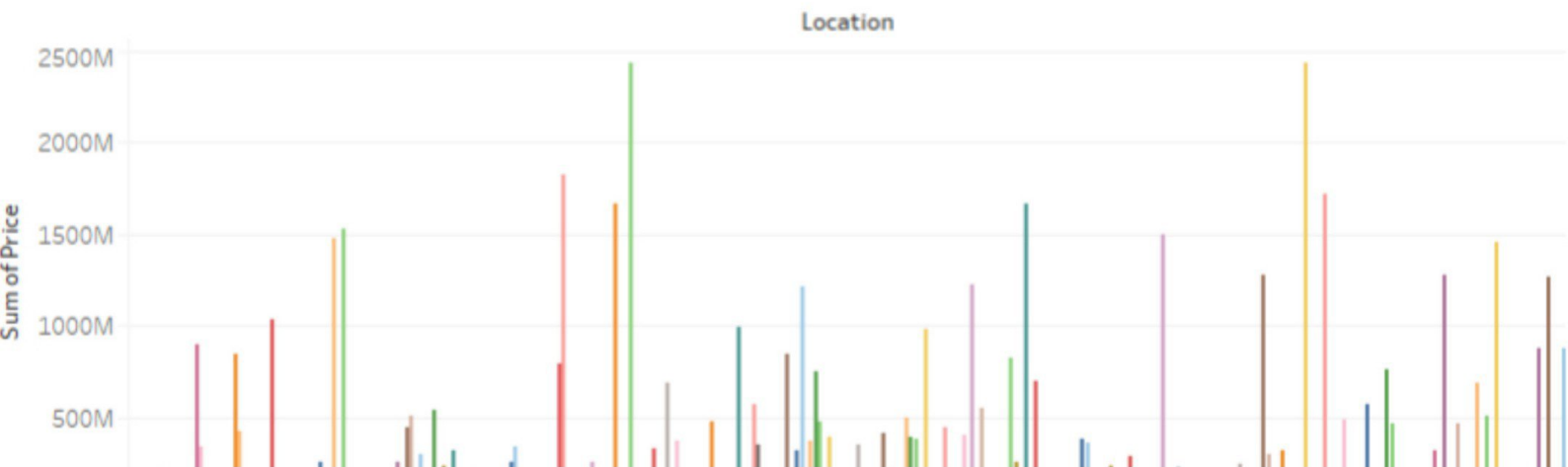


Dashboard 2

Dashboard 3

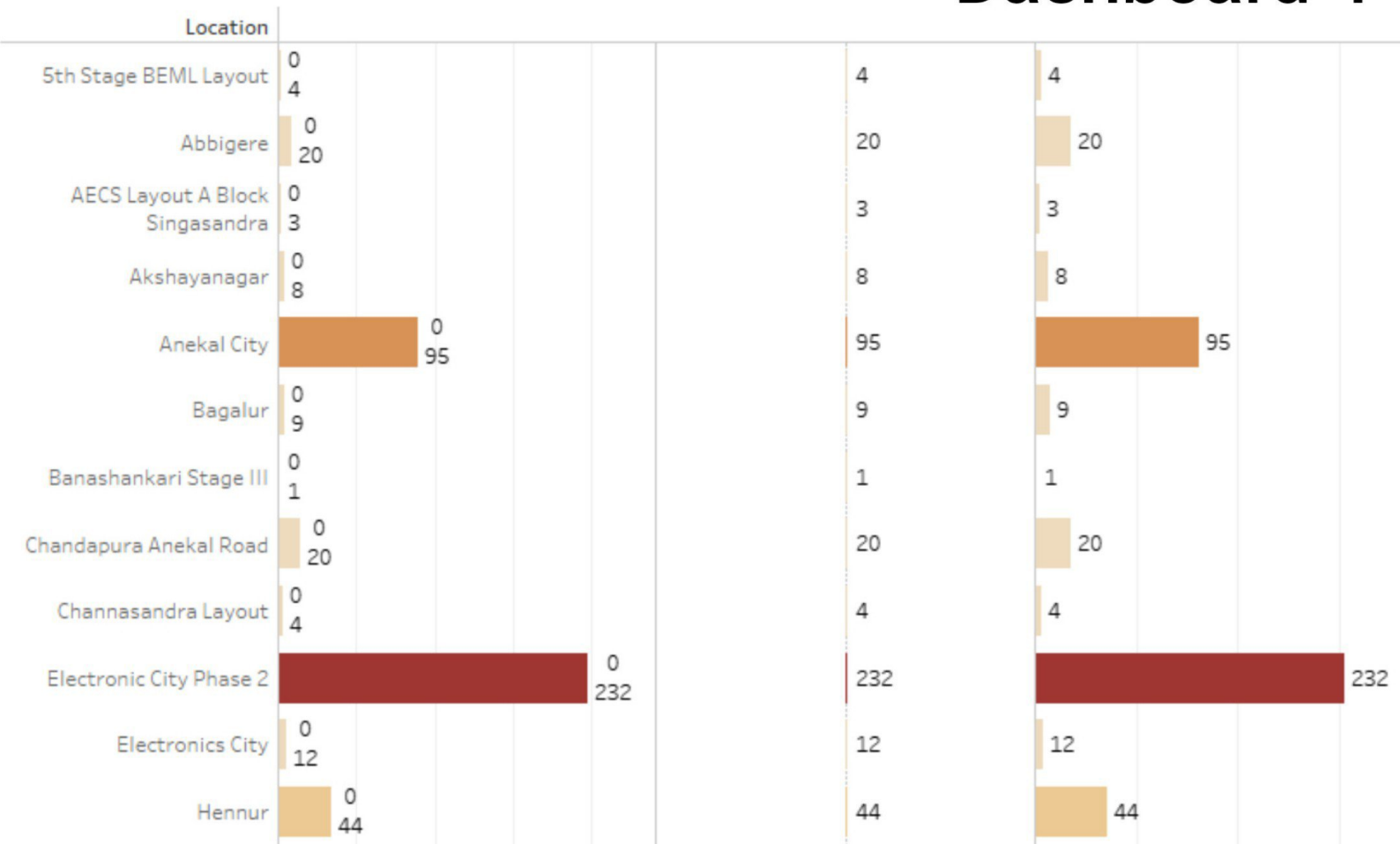


House price based on No of bedrooms



House prices and intercom

Dashboard 4



Story 1

- <
- Our houses in the 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
- our bes

>





[Customize Banner](#)

Abinaya M

Tableau public account

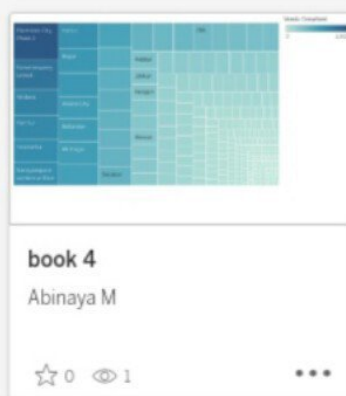
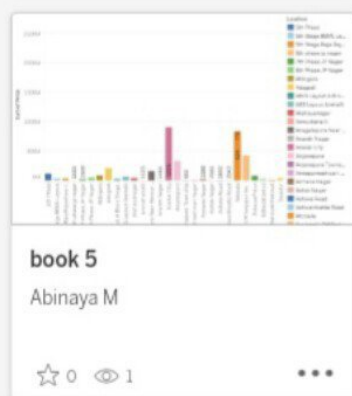
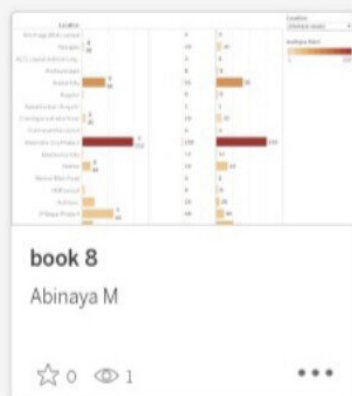
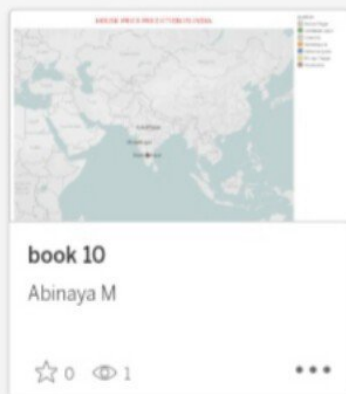
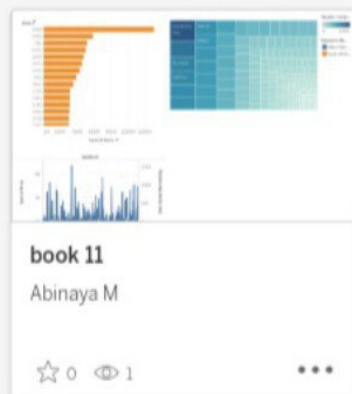
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Advantages

- The House price prediction can help the developer determined the selling price of a house and can help the customer to arrange the right time to purchase a house.
- The prediction model could help investors find profitable apartment or homeowners get accurate and automated valuations.

Disadvantages

- The risk in investment in an apartment or an area increases considerably
- Customers tend to hire an agent which again increases the cost of the process
- The rise and fall of house prices can have big implication for the economy

Application

- Developing on accurate prediction model for housing prices is always needed for socio-Economic development and well being of citizens
- The Housing price prediction model using machine learning techniques are developed and their regression model performance are compared
- To analyse a product or service based on its characteristics, demand, and current market trends

Conclusion

- We create empathy and brainstorming map through mural. com.
- We develop worksheets, dashboard, story using our project dataset collect.
 - open tableau public account for my team.
- I upload all my worksheets, dashboard, story on my tableau public account.
- And we make project report for my analysing housing prices project.
- Finally all my works has been submitted in my Github account.

Future scope

- Predictive pricing or predictive analytics is a method of establishing prices based on the collected and analyzed data. Predictive analytics uses modern technologies to help companies raise profits and reach business objectives.
- By addressing these requirements, the prediction model provides reliable insights, empowering stakeholders to make informed decisions in the fast-paced real estate market.