A.A.GOVERNMENT ARTS COLLEGE, MUSIRI.

Affiliated to Bharathidasan University, Tiruchirappalli.

NAAN MUDHALVAN PROJECT

III B.SC MATHEMATICS TOPIC:

ANALYSING HOUSING PRICES IN METROPOLITAN AREA OF INDIA

Submitted by

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NM2023TMID08350

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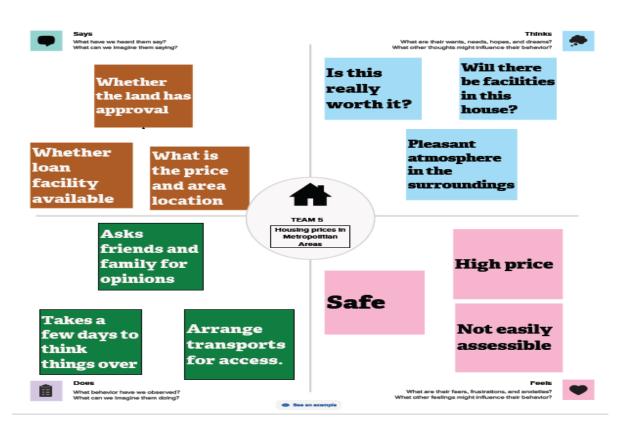
INTRODUCTION

Fact of rapid urbanisation and regional disparities, it is not unexpected that it may lead to some sort of differences in regional house price, where housing and real estate are considered as major sources of physical and financial asset. This also leads to the differences in the dynamics of house price determination. It simply means that there might be shift of house prices in cities from average, in the country depending upon its economic status.

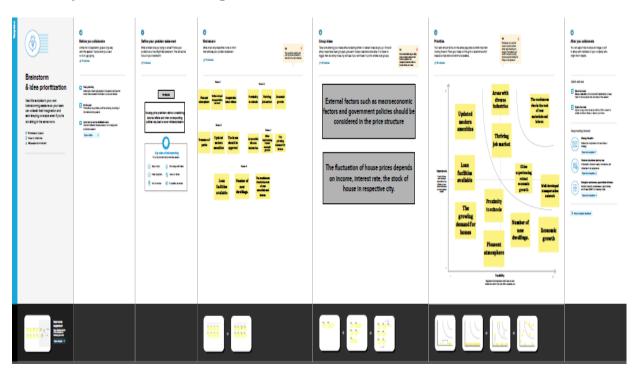


Milestone 1: Define Problem / Problem Understanding

Activity 1: Specify the business problem



Activity 2: Business requirements



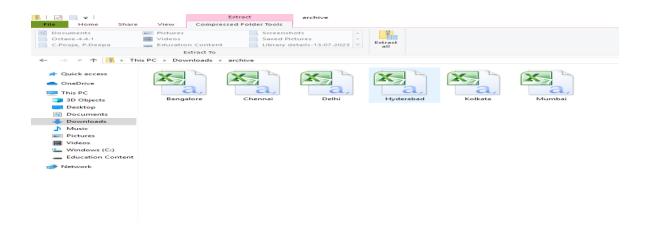
REFERENCE

- ♣ Im, K. S., Pesaran, M. H. and Shin, Y. (2003). Testing for unit roots in heterogeneous panels. Journal of Econometrics, 115: 53-75.
- ♣ Iyer, K. (2011). Technology gap, catching-up and outward orientation: Analysis of 63 countries. Journal Applied Econometrics and International Development, 11(2): 1-20.
- ♣ Khokhar, J.S. (2010). Will India's trade deficit ever converge to zero? An application of bounds testing approach to cointegration. Journal Applied Econometrics and International Development, 10(1): 210-218.
- ♣ Lee, C. and Chien, M. (2011). Empirical modelling of regional house prices and the ripple effect. Urban Studies, 48(10): 2029–2047.
- Levin, A., Lin, C.-F. and Chu, S.-S. J. (2002). Unit root tests in panel data: asymptotic and finite-sample properties. Journal of Econometrics, 108: 1-24.

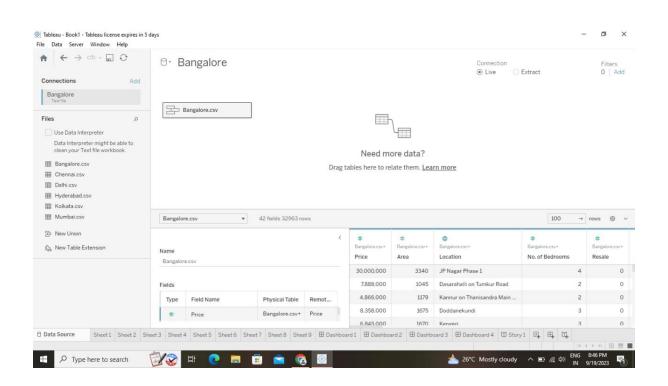


Milestone 2: Data Collection

Activity 1: Downloading the dataset



Activity 2: Connect Dataset with Tableau



Milestone 3: Data Preparation

Activity 1: Prepare the Data for Visualization

This process helps to make the data easily understandable and ready for creating visualizations gain insights into performance and efficiency.

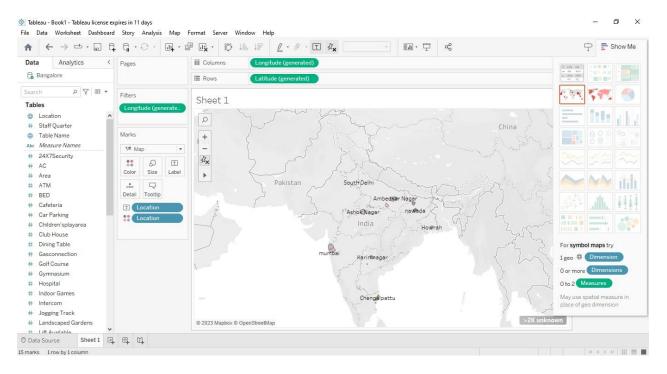
Milestone 4: Data Visualization

Data visualization is the representation of data through use of common graphics, such as charts, plots, infographics, and even animations.

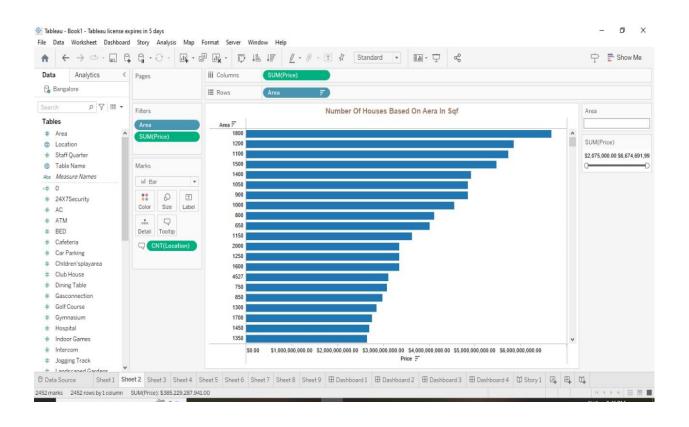
Activity 1: Number of Unique Visualization

The number of unique visualizations that can be created with a given dataset.

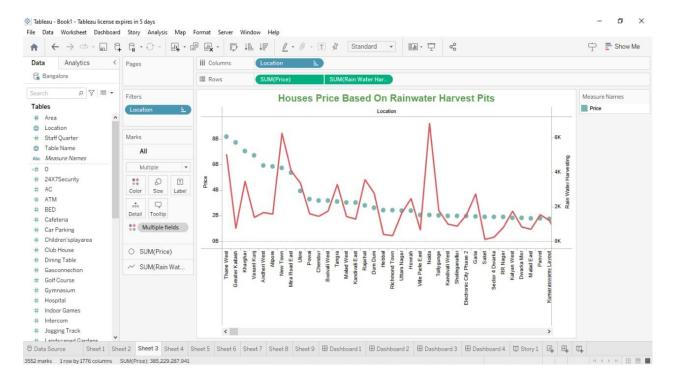
Activity 1.1: Latitude and Longitude based on Location



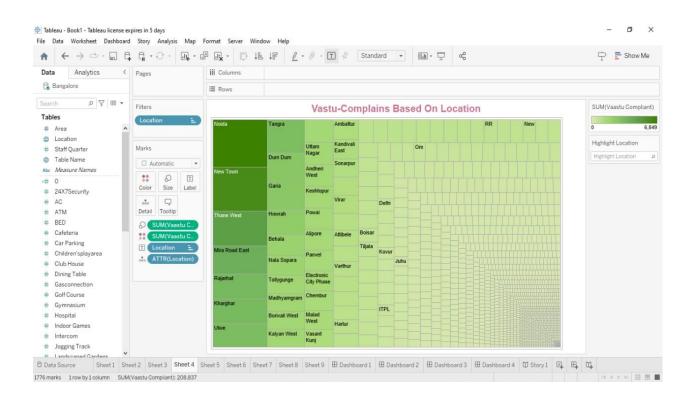
Activity 1.2: Number of houses based on area in sqf



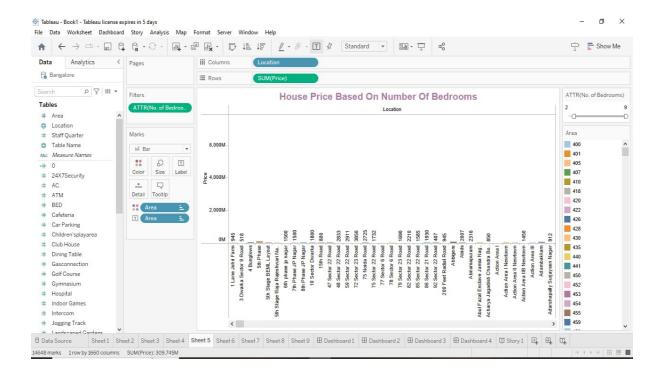
Activity 1.3: Houses price based on rainwater harvest pits



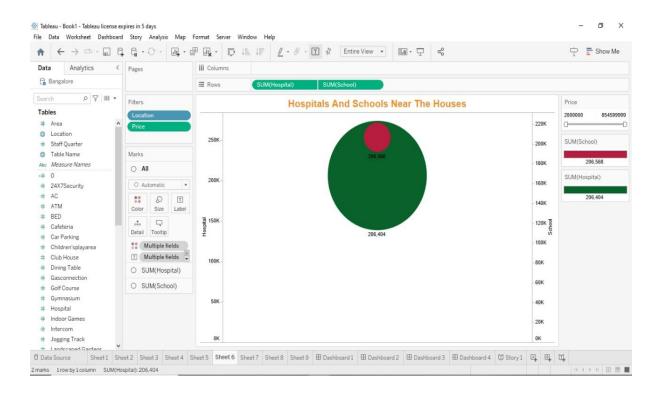
Activity 1.4: Vastu-complains based on location



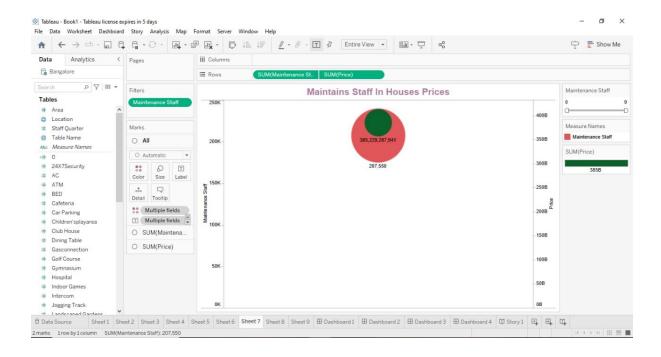
Activity 1.5: House price based on Number of Bedrooms



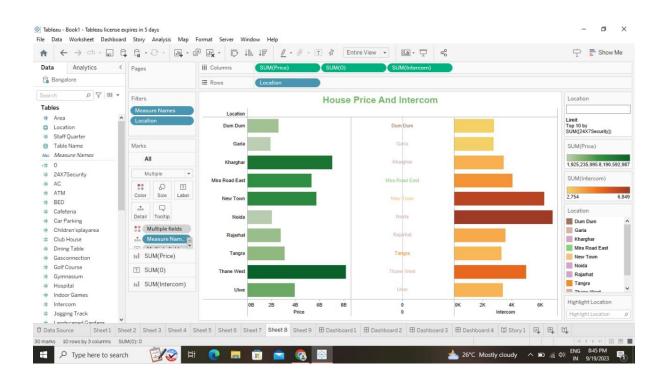
Activity 1.6: Hospitals and Schools near the Houses



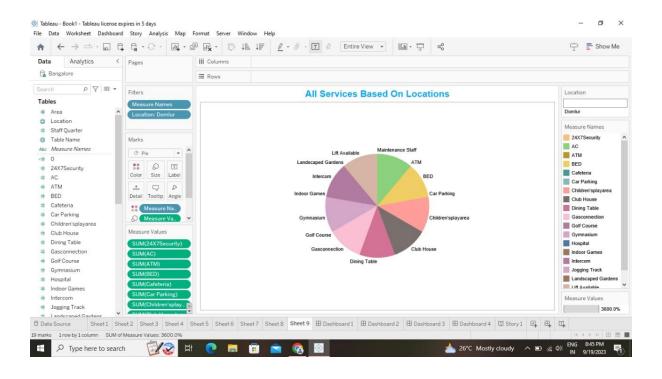
Activity 1.7: Maintains staff in houses prices



Activity 1.8: House Price and Intercom



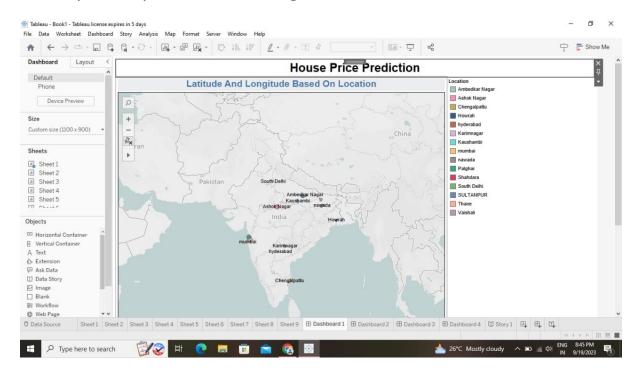
Activity 1.9: All Service based on Locations

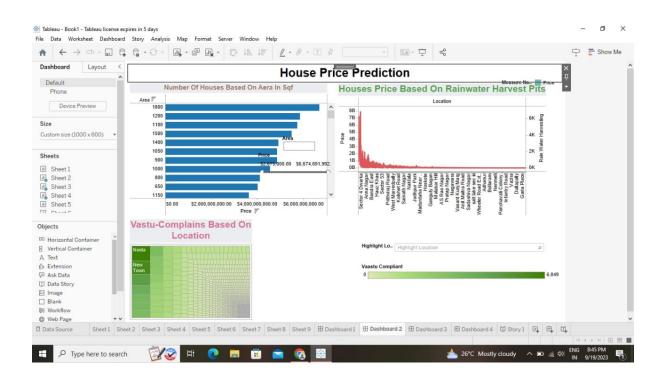


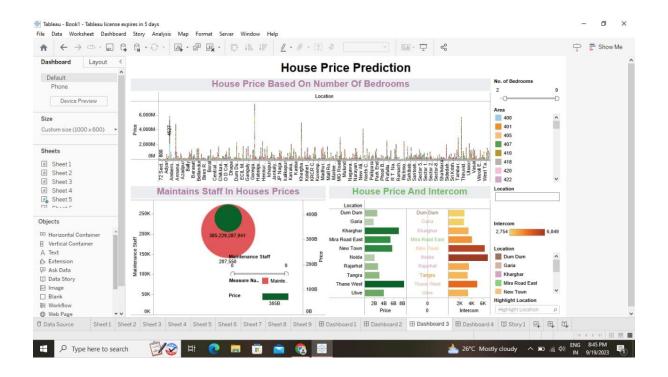
Milestone 5: Dashboard

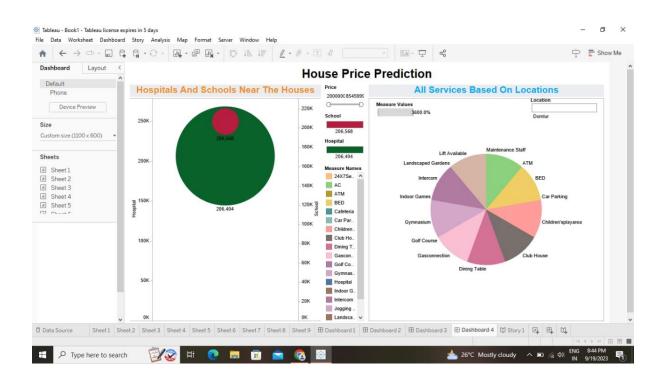
A dashboard is a graphical user interface that displays information and data in an organized, easy-to-read format.

Activity 1- Responsive and Design of Dashboard



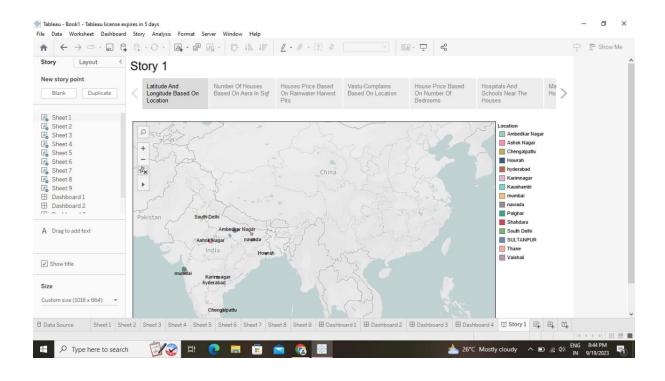


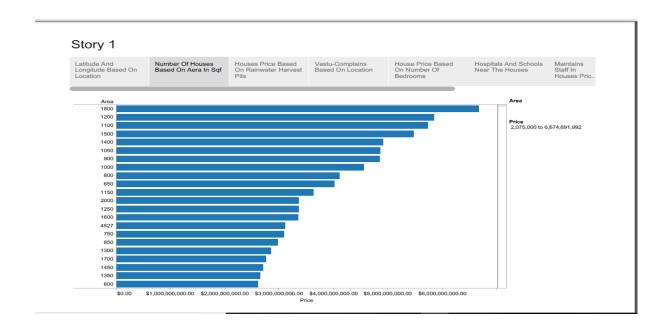




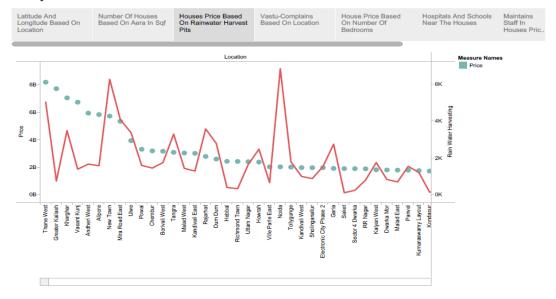
Milestone 6: Story

Activity 1: Number of Scenes of Story

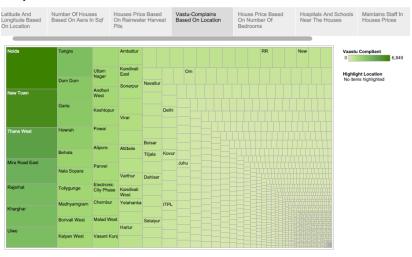




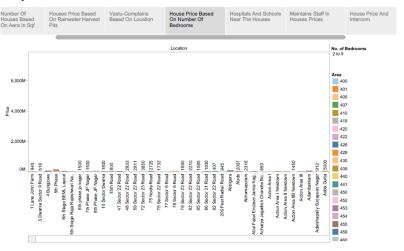
Story 1



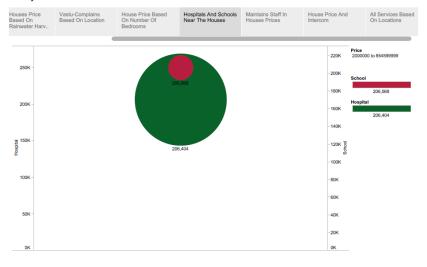
Story 1



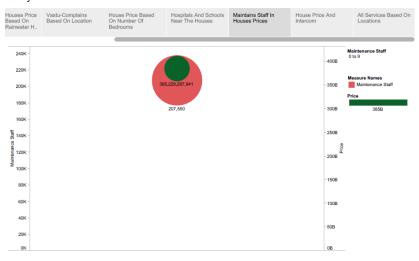
Story 1



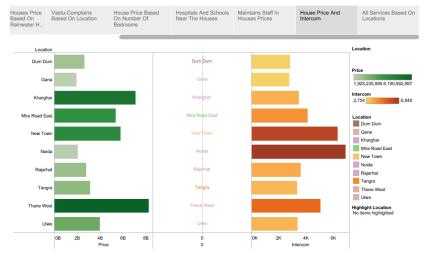
Story 1



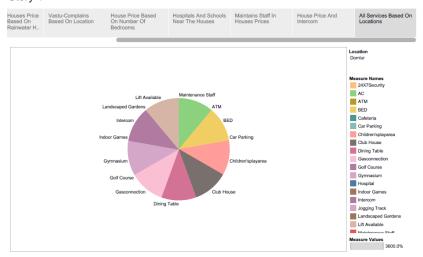
Story 1



Story 1

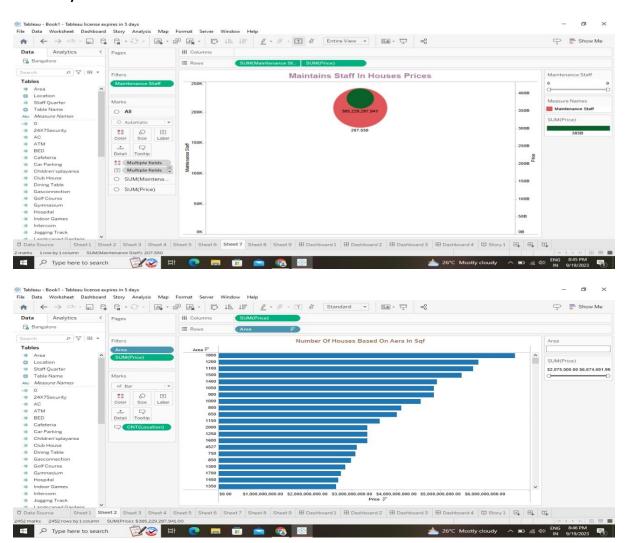


Story 1



Milestone 7: Performance Testing

Activity 1



Milestone 8: Publishing

Dashboard 1 Link

https://public.tableau.com/views/dashboard1 169526658 26940/Dashboard1?:language=en-

<u>US&publish=yes&:display_count=n&:origin=viz_share_link</u>

Dashboard 2 Link

_https://public.tableau.com/views/dashboard2 169526856
71970/Dashboard2?:language=enUS&publish=yes&:display count=n&:origin=viz share link

Dashboard 3 Link

https://public.tableau.com/views/dashboard4 169527828 13380/Dashboard4?:language=en-

US&publish=yes&:display count=n&:origin=viz share link

Dashboard 4 Link

https://public.tableau.com/views/dashboard3 169527777 77370/Dashboard3?:language=en-

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Story

https://public.tableau.com/views/Story1 16952786389200/Story1?:language=en-

<u>US&publish=yes&:display_count=n&:origin=viz_share_link</u>

CONCLUSION

Factors that affect house prices in Istanbul are investigated by regression analysis with spatial variables. House Price taken in natural Log form as dependent variable and house characteristics, neighbourhood characteristics and transportation infrastructure taken as independent variables. Data obtained from local real estate brokers and by the help of geographical information systems and spatial statistics this paper figures a distribution of house prices.

The house prices were collected from local real estate brokers' sales database of 2018. In fiscal terms the brokerages fees are %3 of sales price both %1.5 from seller and buyer share. In order to taxation values up to %48 of income gains from property many owners avoid to declare the real prices. The prices of houses that are sold by real estate brokers are collected on street level of geocoded address code.