



Gurgaon Property Analysis Dashboard



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Challenge

Gurgaon's real estate market is constantly evolving, with frequent fluctuations in property prices, diverse demand across regions, and varying investment opportunities. Buyers and investors often face difficulties in quickly identifying the right properties, leading to longer decision-making cycles and missed opportunities.



Solution and Impact

Solution: To address this, I developed a **Property Analysis Dashboard** using Streamlit, which provides **area-wise price trends, society recommendations, price predictions** based on user-selected features, and **price ranges** tailored to apartment sizes.

Impact: The dashboard cuts property search time by **30%** by offering real-time insights, helping users quickly identify profitable opportunities and make informed decisions.

Data Source: Web scraped 3000+ property listings from popular sites like 99acres and Magic Bricks using Selenium and Beautiful Soup



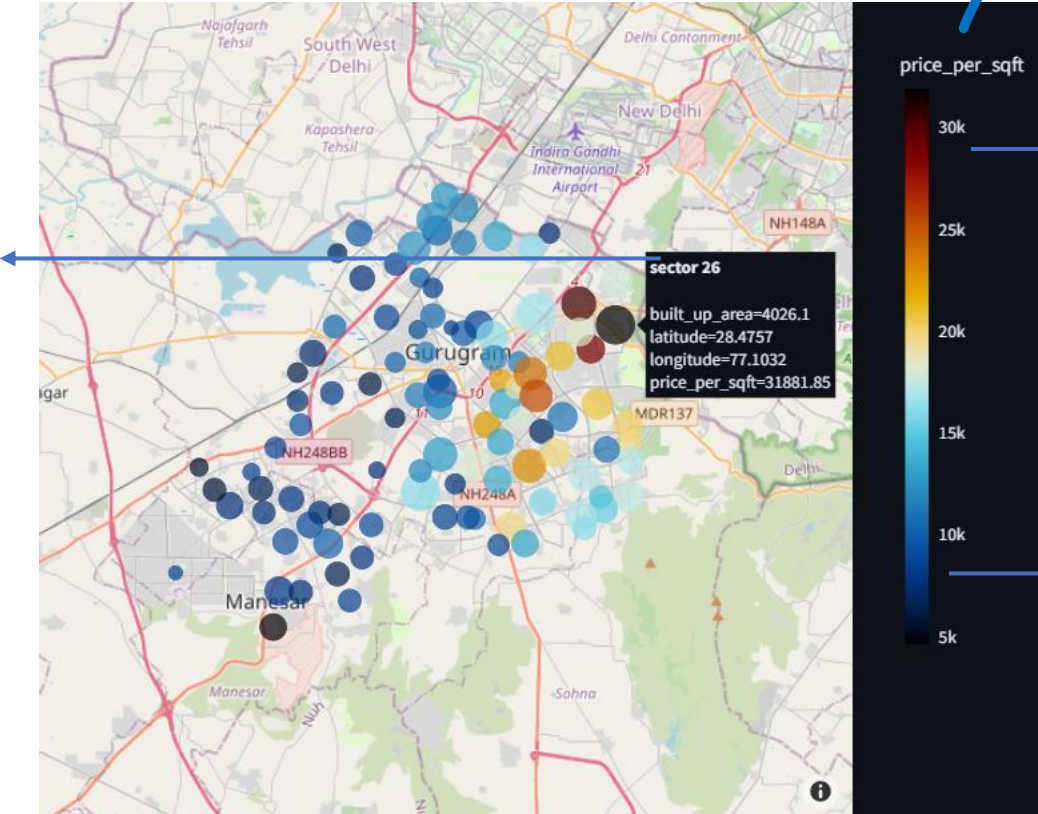
Dashboard

1. [Geo Map](#): Price and location info in Map View
2. [Available Amenities Word cloud](#)
3. [Area Vs Price](#): Scatter Plot for relation between Built Area and Price
4. [BHK Distribution](#): Pie chart showing the count of 2BHK, 3BHK, etc.
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Geo Map


Hovering over the bubble reveals the **price per sqft**, **sector**, and **location**



Color bar representing the **price per sqft range** for each area of Gurgaon

Highest Price per Sqft is around **> ₹30,000 (Quite Expensive)**

The lowest Price per Sqft is around **₹5,000**



The **larger** the **text**, the more frequently the amenity is listed in the Selected Area



Area vs Price

The y-axis displays the **Price in Crores**

The x-axis shows the **Total Built Up Area**



Select Property Type
(House | Flat)

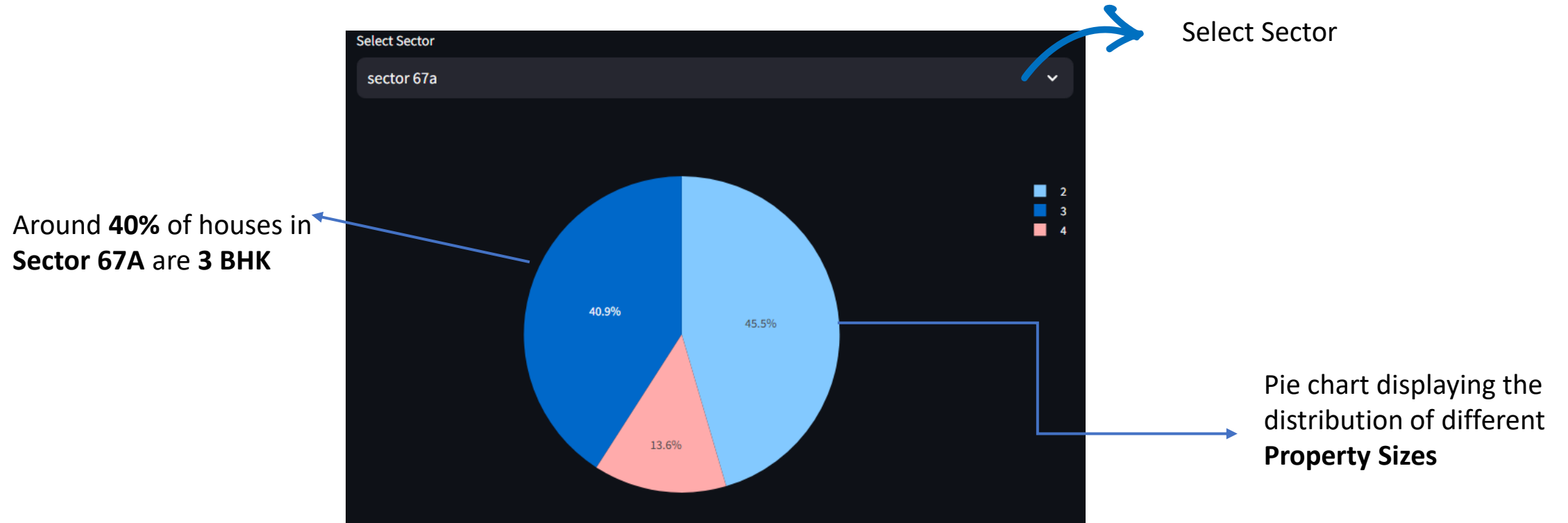
```
agePossession=Relatively New  
built_up_area=7444  
price=15  
bedRoom=5
```

The color bar shows the **number of bedrooms**, with lighter indicating more

Use this slider to select the **Property Age**



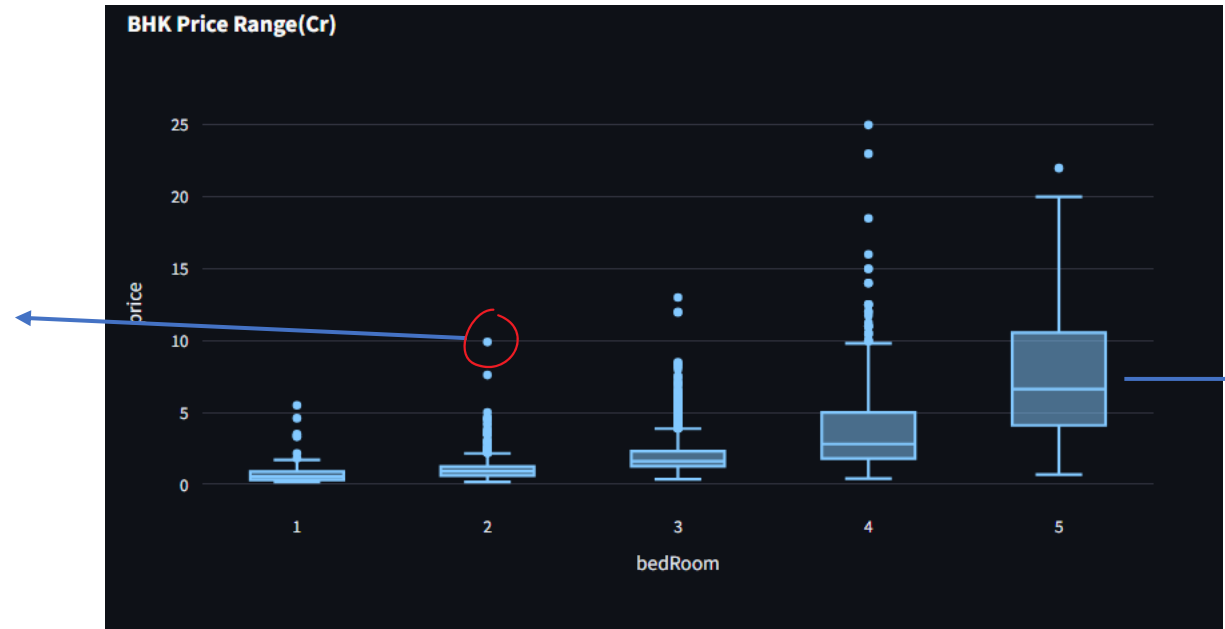
BHK Distribution





BHK Price Range Comparison

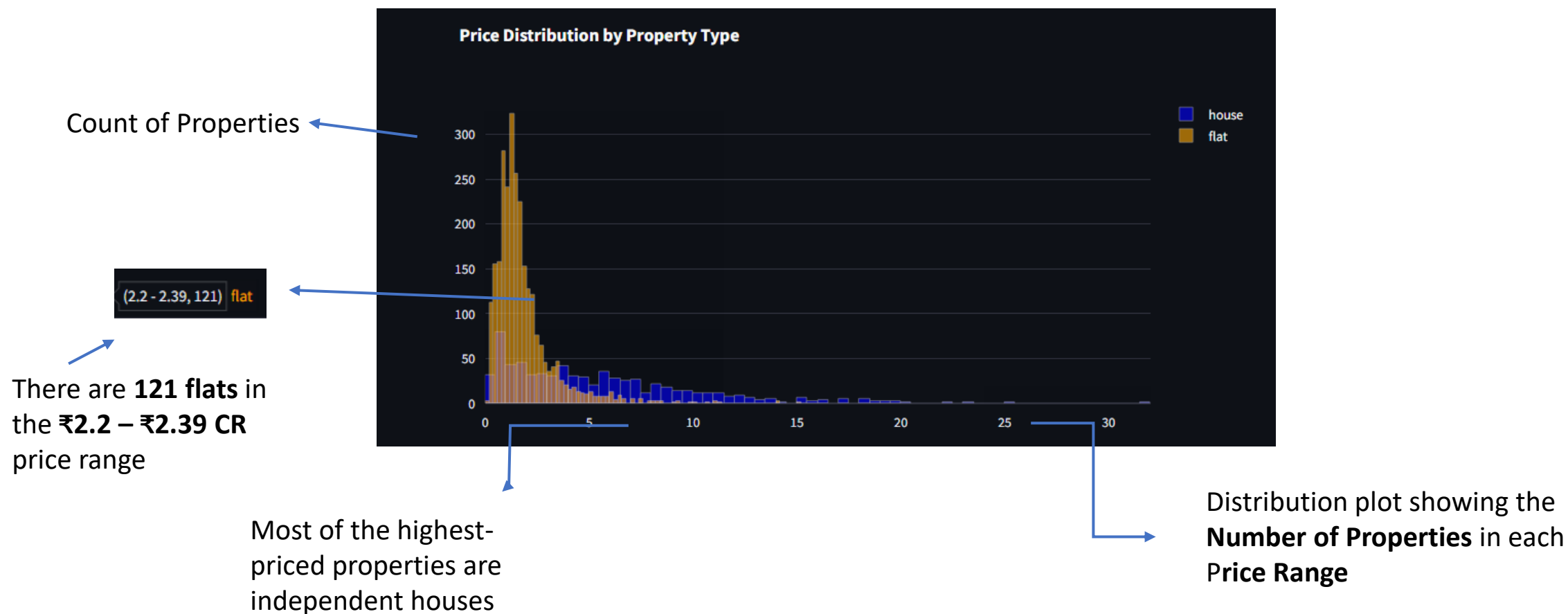
This shows that the priciest 2 BHK in the selected sector was around ₹10Cr



Box plot showing **Price Ranges** for each **Property Size**



Price Distribution by Property Type





Price Range Prediction

Helps buyers estimate the price range of properties based on their needs

Select Property Type, Location and Amenities

Gurgaon Real Estate Price Predictor

Enter your inputs

Property Type
flat

Sector
sector 103

Average Price change for sector 103 is: ₹-4114

Number of bedrooms
1.0

Average Price increase Per bedrooms: ₹ 106961

Number of bathrooms
1.0

Number of Balconies
0

Property Age
Moderately Old

Built Up Area
1100

Price change compared to the average price across **Gurgaon**

Uses **Random Forest Regressor** with **90%+ accuracy**, trained on **3000+** properties

The model predicts the property price within a **90% prediction interval**

Predict

The flat's price falls within the range of approximately 0.62 Crores to 1.06 Crores.



Similar Society Recommendation

Recommends Society Based on the Selected Location and Recommend Apartments in the selected Society

Select a landmark and radius to recommend nearby societies

This option autofills with the previously recommended societies

Select Location and Radius

Location
Aarvy Hospital

Radius in Kms
30

Search

Ireo Victory Valley : 2.5 Kms
Bestech Park View Grand Spa : 3.2 Kms
Emaar MGF Emerald Floors Premier : 3.9 Kms
International City by SOBHA Phase 2 : 8.8 Kms

Recommend Apartments

Select an Apartment
Choose an option

Ireo Victory Valley
Bestech Park View Grand Spa
Emaar MGF Emerald Floors Premier
International City by SOBHA Phase 2

Multiple apartments are recommended for the selected society

Recommend Apartments

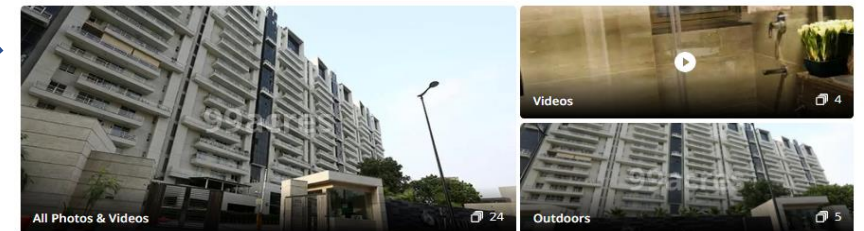
Select an Apartment
Bestech Park View Grand Spa

Recommend

Recommended Apartments:

La Lagune : [Link](#)

Whiteland The Aspen : [Link](#)



Home > Projects in Gurgaon > Golf Course Road > Sector 54 Gurgaon > La Lagune

La Lagune

Sector 54, Gurgaon

REERA Status No Brokerage 3D Floor Plans Available +50 Top Facilities

CONSTRUCTION STATUS
Ready To Move
Since Sep, 2013

[View Number](#)

Select a link to visit the buy page on 99acres or Magic Bricks for more information



Project Summary

- This Streamlit-based dashboard, built with Python (using Pandas, Numpy, and Plotly), streamlines the property search process for buyers in Gurgaon.
- The project demonstrates my ability to apply data analysis, machine learning, and data visualization techniques to solve real-world problems.
- It showcases my skills in leveraging data-driven insights to improve decision-making, which I am eager to bring to a data analyst role