

# House Rent Prediction Analysis

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## Outline:

- Examine different potential factors on the Indian house rental prices

## Questions:

- Is house size important for determining the rental price?
- Does the area type affect the rental price?
- Does city/location affect the price?
- Does the furnishing status affect the price?
- Does the point of contact affect the price?
- Does the number of bathrooms affect the price?
- Does population affect rental prices?

## Datasets:

### House Rent Prediction Dataset:

- A dataset obtained from Kaggle, containing information on rental properties within India  
(URL: <https://www.kaggle.com/datasets/iamsouravbanerjee/house-rent-prediction-dataset>)

### City Population - API Ninjas:

- The API used to retrieve city populations (<https://api-ninjas.com/api/city>).

## Breakdown of tasks:

- Reading the csv file using Pandas
- Cleaning the data
- Removing outliers
- Plotting the data using matplotlib
- Retrieving population info using API Ninjas City Population API
- Statistical analysis using SciPy
- GitHub maintenance
- Present findings