

## Germany Rental Property Analysis

### DATA

- Source of Data: The data is available on one of open source platform – kaggle.com and downloaded from following link <https://www.kaggle.com/code/jonaslneri/german-rent-avg-by-postal-code>
- Data Collection: The data was collected from Immoscount24 and it is the biggest real estate online platform in Germany. Immoscount has listing for rental Properties and properties for Sales. For the analysis, we are using only rental Properties dataset.
- Data Content: The Data sets contains the information about rental Properties and it include following information State, service charge, Rent, Balcony, parking, Telekom TV offer, number of pictures, cellar, has kitchen etc.
- Data Profile:
  1. The Data has 47 Columns and 47746 rows. After data Quality check, it has 24 columns and 47242 rows.
  2. The missing Value have been replaced by adding the two columns Values and creating new column.
  3. There is no duplicates Values.

Index	Columns	Description	Time Variant/ Invariant	Data type
1	State	Germany States	Invariant	Qualitative
2	Service Charge	The Fees for Providing service by Landlords	Invariant	Quantitative
3	Base Rent	Rent without service charges	Invariant	Qualitative
4	Total Rent	Total rent paid with service charges	Invariant	Qualitative
5	Calculated Total Rent	Total rent paid with service charges with no Blank	Invariant	Qualitative
6	Telekom-Tv Offer	TV offer is include or not	Invariant	Qualitative
7	Newly Construction	Building is newly constructed or not	Invariant	Quantitative
8	Balcony	The Balcony is available or not	Invariant	Qualitative
9	No of Pictures	Number of pictures Upload	Invariant	Quantitative
10	Price trend	Price trend calculate by App	Invariant	Quantitative
11	Telekom Upload Speed	Speed of uploading	Variant	Quantitative

12	Constructed Year	The Year of Property become Constructed	Variant	Quantitative
13	Scout ID	The ID for User	Invariant	Qualitative
14	Parking Space	parking space is provided or not	Invariant	Qualitative
15	Kitchen	Kitchen is available or not.	Invariant	Qualitative
16	cellar	Cellar is available or not	Invariant	Qualitative
17	Living Space Area	Living space is Available	Invariant	Qualitative
18	Pets Allowed	Pets are allowed or not	Invariant	Qualitative
19	Lift	Is Lift available or not	Invariant	Qualitative
20	Type of Flat	Is it house or apartment ,if apartment which Floor.	Invariant	Qualitative
21	Number of Rooms	Number of rooms are available	Invariant	Qualitative
22	Garden	Garden is available or not	Invariant	Qualitative
23	Living Space Range	How many people can stay.	Invariant	Quantitative
24	Date of posted Ads	Data of posted Ads	Invariant	Quantitative

- Limitation and ethics
  1. Limitation: The contains a lot of missing values and also contains unnecessary information. The Data contains many errors in typing.
  2. Ethical issue: The data contains no personal Information or indiscriminates variable,so no PLA Security is required.
- Questions to explore:
  1. What are the Factors on which rent are depends?
  2. Which States of Germany has more expensive Rent and which states has lowest rent.
  3. How much number of rooms are mostly preferred?
  4. Which types of Flat are interested most ?