

SHETH L.U.J. AND SIR M.V. COLLEGE

Aim:- Conducting Chi-square tests using chisq.test() ®

RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Console Terminal Background Jobs
R + R 4.5.2 - ~
[workspace loaded from ~/RData]
> library(dplyr)
Attaching package: 'dplyr'
The following objects are masked from 'package:stats':
filter, lag
The following objects are masked from 'package:base':
intersect, setdiff, setequal, union
> df <- read.csv("data.csv")
> str(df)
#> data.frame': 7691 obs. of 10 variables:
\$ house_type: chr "2 BHK Flat for Rent in Oberoi Woods, Goregaon East, Mumbai" "1 BHK Flat for Rent in Sapphire Lakeside, Powai, Mumbai" "1 BHK House for Rent in Mundhwa Pune" "2 BHK Flat for Rent in Hinjewadi, Nagpur" ...
\$ locality : chr "Goregaon East" "Powai" "Mundhwa" "Hinjewadi" ...
\$ city : chr "Mumbai" "Mumbai" "Pune" "Nagpur" ...
\$ area : num 897 491 550 1000 595 600 1260 2700 650 495 ...
\$ beds : int 2 1 1 2 1 1 3 3 1 1 ...
\$ bathrooms : int 2 1 1 2 1 1 3 3 1 1 ...
\$ balconies : int 0 0 0 0 0 0 2 2 0 0 ...
\$ furnishing: chr "Semi-Furnished" "Semi-Furnished" "Unfurnished" "Unfurnished" ...
\$ area_rate : num 134 82 22 8 25 ...
\$ rent : num 120000 40000 12000 8000 15000 16000 60000 200000 11000 24000 ...
> table_city_furnishing <- table(df\$city, df\$furnishing)
> table_city_furnishing
Furnished Semi-Furnished Unfurnished
Bangalore 289 1156 345
Mumbai 449 639 631
Nagpur 92 245 258
New Delhi 399 798 611
Pune 372 590 817
> chi_result <- chisq.test(table_city_furnishing)
> chi_result

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Pearson's Chi-squared test
data: table_city_furnishing
X-squared = 490.14, df = 8, p-value < 2.2e-16
>

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ROLL NO. S093
SUBJECT:- Data Analysis With SAS / SPSS / R