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# Exploratory Data Analysis - 1D Analysis
# Student Name: UTKARSH SINGH
# Roll Number: <21BCE3409>




library(ggplot2)
library(dplyr)

house_data <- read.csv("C:\\Users\\aryan\\Downloads\\house price 3.csv")

Fname_Lname <- house_data[1:123, ]


summary(Fname_Lname)

png(filename = "price_distribution.png") # Save plot as PNG
ggplot(Fname_Lname, aes(x = price)) +
  geom_histogram(bins = 30, fill = "blue", color = "black") +
  labs(title = "House Price Distribution - Your Roll No", x = "Price", y = "Frequency") +
  theme_minimal()
dev.off()

png(filename = "bedrooms_distribution.png")
ggplot(Fname_Lname, aes(x = bedrooms)) +
  geom_bar(fill = "green", color = "black") +
  labs(title = "Bedroom Count Distribution - Your Roll No", x = "Bedrooms", y = "Count") +
  theme_minimal()
dev.off()

png(filename = "sqft_living_distribution.png")
ggplot(Fname_Lname, aes(x = sqft_living)) +
  geom_histogram(bins = 30, fill = "orange", color = "black") +
  labs(title = "Living Space Area Distribution - Your Roll No", x = "Sqft Living", y =
"Frequency") +
  theme_minimal()
dev.off()
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