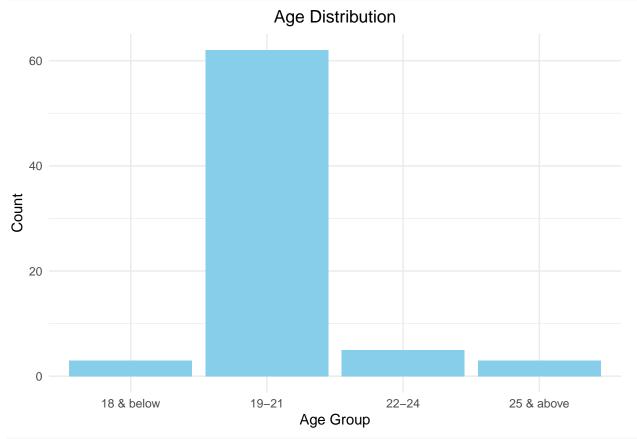
Demographics

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```
# Install the required packages
install.packages("ggplot2")
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)
install.packages("tidyr")
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)
install.packages("dplyr")
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)
# Load the required libraries
library(ggplot2)
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
library(tidyr)
# Read the CSV file
data <- read.csv("/cloud/project/Survey/survey.csv")</pre>
# Remove whitespace from column names
names(data) <- trimws(names(data))</pre>
# Standardize age groups
data$Age. <- gsub("17|18", "18 & below", data$Age.)
data$Age. <- gsub("19|20|21|19 yrs. Old", "19-21", data$Age.)
data$Age. <- gsub("22|23|24", "22-24", data$Age.)
data$Age. <- gsub("25|26|27|28", "25 & above", data$Age.)
# Convert columns to appropriate data types
data$Age. <- as.factor(data$Age.)</pre>
data$Sex. <- as.factor(data$Sex.)</pre>
```

```
data$Education.level <- as.factor(data$Education.level)</pre>
data$How.often.do.you.use.Digital.Payment. <- as.factor(data$How.often.do.you.use.Digital.Payment.)
data$How.long.have.you.been.using.Digital.payment. <- as.factor(data$How.long.have.you.been.using.Digit
# Remove rows with missing data
cleaned_data <- na.omit(data)</pre>
# Remove duplicate rows
cleaned_data <- cleaned_data %>%
 distinct()
# Create bar plot for Age distribution
bar_plot_age <- ggplot(cleaned_data, aes(x = Age.)) +</pre>
  geom_bar(fill = "skyblue") +
  labs(title = "Age Distribution",
       x = "Age Group",
       y = "Count") +
  theme minimal() +
  theme(plot.title = element_text(hjust = 0.5))
bar_plot_age
```



#The bar plot illustrates the distribution of survey respondents across distinct age categories. #The age ranges are segmented into four groups: "18 $\mathfrak G$ below", "19-21", "22-24", and "25 $\mathfrak G$ above". #Each bar on the plot represents the frequency of individuals falling within a specific age range. #It's evident that the "19-21" age range has the highest frequency.

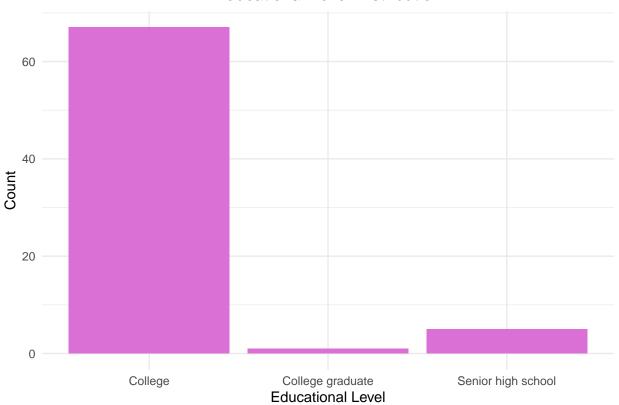
Sex Distribution 40 30 10 Female Sex Male

#The bar plotcategorizing individuals into two groups: "Male" and "Female".

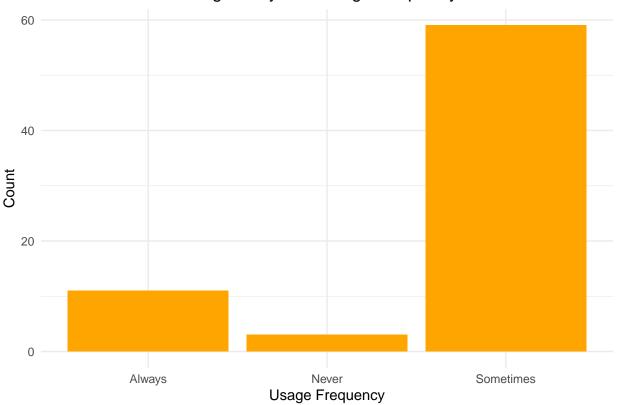
#Each bar on the plot represents the frequency of respondents belonging to a specific sex category.

#We can identify which sex category has the highest frequency of respondents which is "Male".

Educational Level Distribution







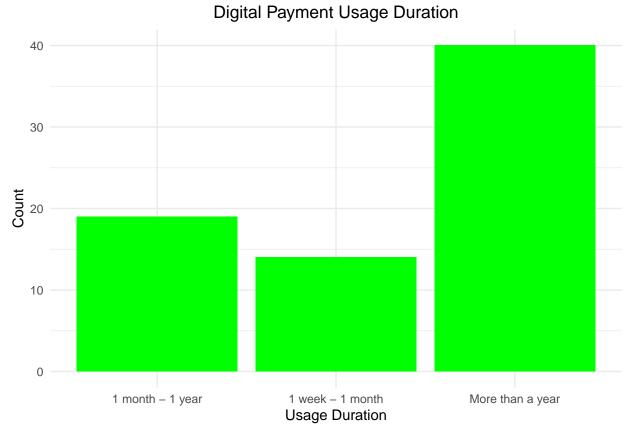
#The bar plot depicts the frequency of respondents' usage of digital payment applications.

#Categorizing users into three frequency categories: "Never", "Sometimes", and "Always".

#Each bar represents thefrequency of respondents falling into a particular usage frequency category.

#From the bar plot, the "Sometimes" category has the highest frequency of respondents.

#While the "Never" category has the lowest frequency of respondents.



#The bar plot visualizes the duration of time users have been utilizing digital payment applications.
#Categorizing users into different time intervals
#Such as "1 week - 1 month", "1 month - 1 year", and "More than a year."
#From the bar plot, we find that the category "More than a year" has the highest frequency.
#While the category "1 week - 1 month" has the lowest frequency of respondents.