AI-stat.R.

91939

2023-11-27

```
setwd("C:/Users/91939/Desktop/1st-MCA/R")
std_data=read.csv("13-Influence of AI TOOLS on Student's Learning Process.csv", header=T)
#Dropping unwanted columns and cleaning the dataset
drop=c("Timestamp", "Username", "Any.Comments..Review")
std_data= std_data[,!(names(std_data) %in% drop)]
#change column_names
colnames(std_data)=c("ar","g","e","freq","access","sat_per","impt","recall","mot_ler","sat_info","sat",
str(std_data)
## 'data.frame':
                  158 obs. of 22 variables:
## $ ar : chr "18-24" "18-24" "18-24" "18-24" ...
## $ g
            : chr "Male" "Male" "Male" ...
## $ e
            : chr "Postgraduate" "Postgraduate" "Postgraduate" "Undergraduate" ...
## $ freq : chr "Strongly agree" "Agree" "Strongly agree" "Agree" ...
## $ access : chr "Strongly agree" "Agree" "Strongly agree" "Agree" ...
## $ sat_per : chr "Strongly agree" "Agree" "Strongly agree" "Strongly agree" ...
## $ impt : chr "Strongly Agree" "Agree" "Agree" "Neutral" ...
## $ recall : chr "Strongly Agree" "Agree" "Agree" "Agree" ...
## $ mot_ler : chr "Strongly Agree" "Agree" "Neutral" "Neutral" ...
## $ sat_info: chr "Strongly Agree" "Agree" "Disagree" "Agree" ...
## $ sat : chr "Strongly Agree" "Agree" "Strongly Agree" "Agree" ...
           : chr "Strongly Agree" "Agree" "Strongly Agree" "Agree" ...
## $ anx
## $ prcy : chr "Neutral" "Agree" "Disagree" "Disagree" ...
           : chr "Agree" "Agree" "Neutral" "Agree" ...
## $ saw
## $ p_att : chr
                   "Neutral" "Agree" "Agree" "Neutral" ...
## $ flex
             : chr
                   "Disagree" "Agree" "Disagree" "Agree" ...
## $ under : chr "Agree" "Agree" "Strongly Disagree" "Agree" ...
## $ i_feed : chr "Strongly Agree" "Agree" "Disagree" "Agree" ...
## $ m_obj : chr "Strongly Agree" "Agree" "Strongly Agree" "Agree" ...
## $ p_alter : chr "Strongly Agree" "Agree" "Strongly Agree" "Agree" ...
## $ add_s : chr "Strongly Agree" "Agree" "Disagree" "Agree" ...
## $ l_exp : chr "Strongly Agree" "Agree" "Agree" "Agree" ...
#checking for null values
is.na(std data)
##
                        e freq access sat_per impt recall mot_ler sat_info
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- ## [114,] FALSE
- ## [115,] FALSE
- ## [116,] FALSE

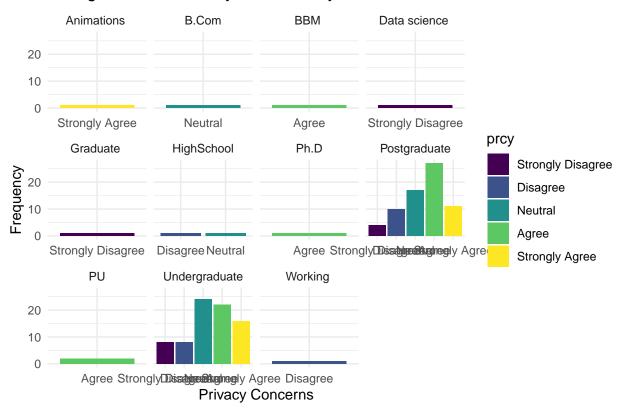
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## [117,] FALSE
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## [145,] FALSE
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## [147,] FALSE
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## [149,] FALSE
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## [154,] FALSE
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## [156,] FALSE
## [157,] FALSE
## [158,] FALSE
```

summary(std_data)

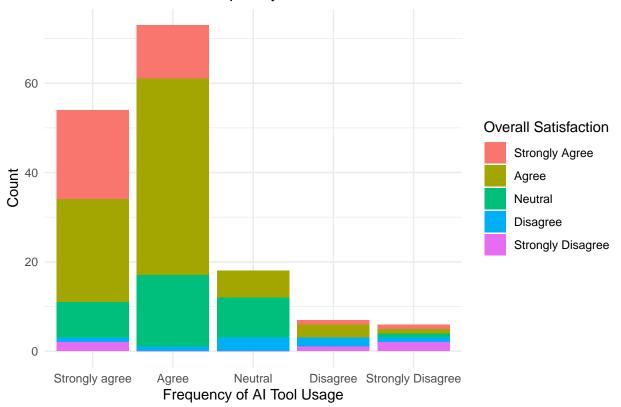
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## Class :character Class :character
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## Mode :character Mode :character
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##
      add_s
                         1_{exp}
## Length:158
                     Length: 158
## Class :character Class :character
## Mode :character Mode :character
ar=factor(std data$ar)
g=factor(std_data$g)
e=factor(std_data$e)
\#Graph-1
library(ggplot2)
## Warning: package 'ggplot2' was built under R version 4.3.2
library(dplyr)
## Warning: package 'dplyr' was built under R version 4.3.2
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
      filter, lag
## The following objects are masked from 'package:base':
##
##
      intersect, setdiff, setequal, union
std_data$prcy <- factor(std_data$prcy, ordered = TRUE,</pre>
                       levels = c("Strongly Disagree", "Disagree", "Neutral", "Agree", "Strongly Agree
ggplot(std_data, aes(x = prcy, fill = prcy)) +
 geom_bar(position = "stack") +
 facet_wrap(~ e, scales = "free_x") +
 labs(title = "Histogram of No Privacy Concerns by Education Level",
      x = "Privacy Concerns",
      y = "Frequency") +
 theme_minimal()
```

Histogram of No Privacy Concerns by Education Level

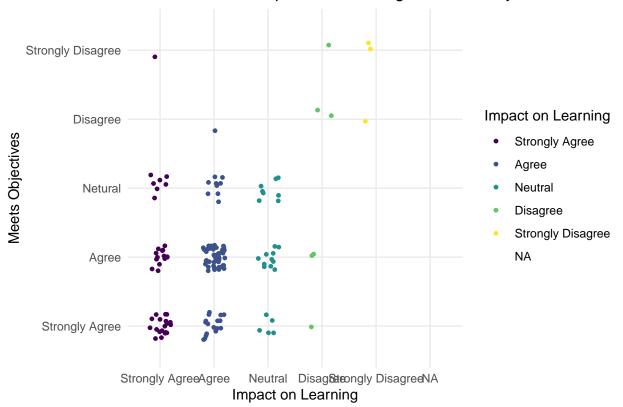




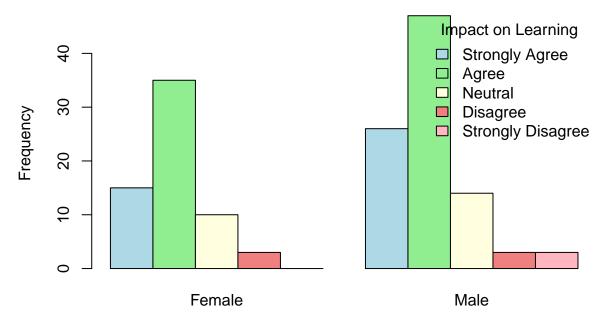


Warning: Removed 2 rows containing missing values ('geom_point()').

Jitter Dot Plot of Impact on Learning vs Meets Objectives



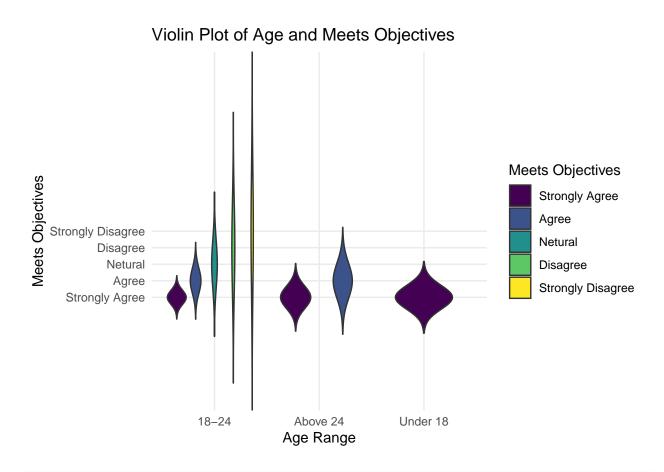
Comparison of Gender and Impact on Learning



Impact on Learning

NULL

- ## Warning: Groups with fewer than two data points have been dropped.
- ## Warning: Groups with fewer than two data points have been dropped.
- ## Groups with fewer than two data points have been dropped.
- ## Groups with fewer than two data points have been dropped.



#UNDERSTANDING THE GRAPH -5#Teenagers(Under-18) and above-24 aged people who use AI tools gets their responses which meets the obj
#For the people who are aged between 18-24 AI have met most of the objectives but still few people are