LLM_Logic

Carson Chiem

2024-01-22

```r
# importing packages and data
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ------------------------ tidyverse 2.0.0 --
## v dplyr     1.1.4     v readr     2.1.5
## v forcats   1.0.0     v stringr   1.5.1
## v ggplot2   3.4.4     v tibble    3.2.1
## v lubridate 1.9.3     v tidyr     1.3.0
## v purrr     1.0.2
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```r
library(readr)
dataset <- read_csv("output_responses_1-7.csv")
```

```
## Rows: 212 Columns: 5
## -- Column specification --------------------------------------------------------
## Delimiter: ","
## chr (4): Prompt, Continuation, Condition, Study
## dbl (1): Response
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

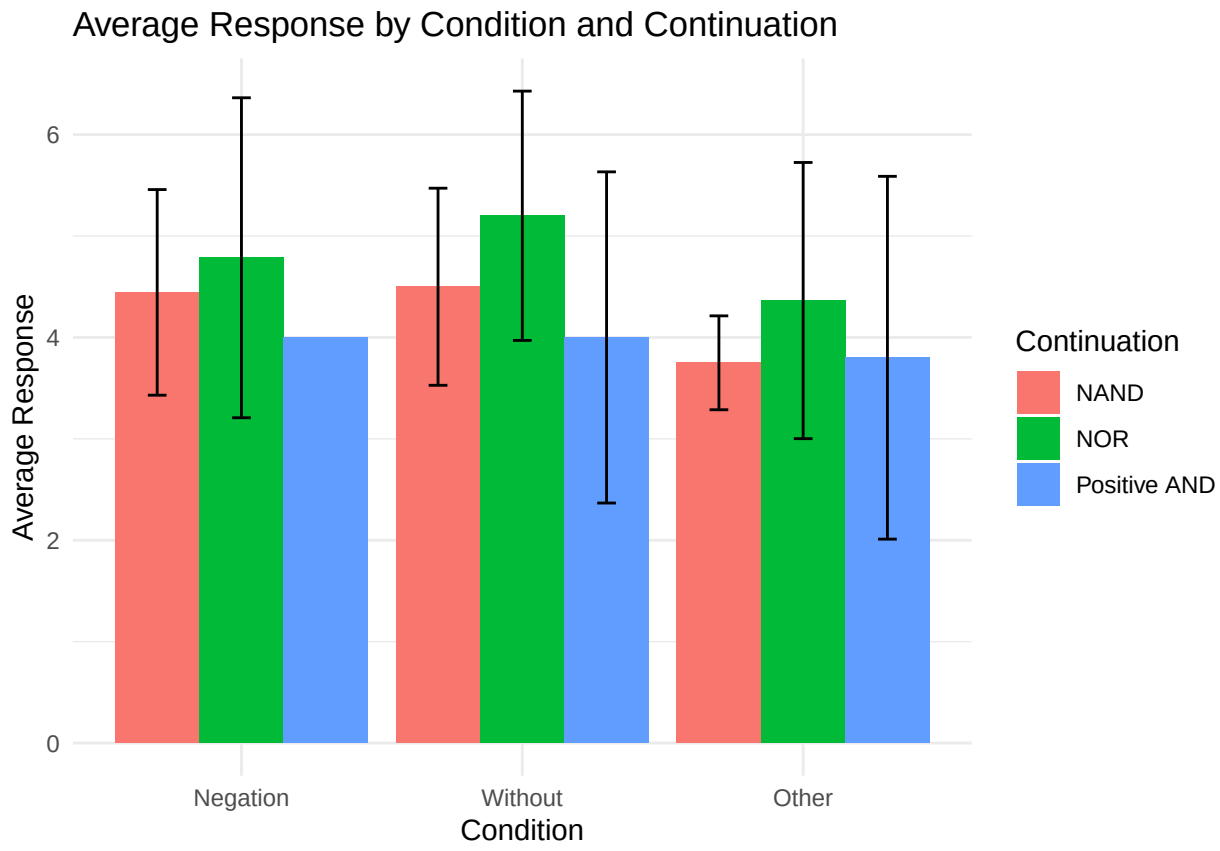
```r
# preparing dataframe
# removing controls from dataset
dataset = dataset %>%
  filter(Condition != "Control")

# renaming values
dataset$Condition = factor(dataset$Condition, levels = c("Experimental_N", "Experimental_W", "Experimen
```

```r
# bar plot with created and original study prompts combined
# finding average responses for each grouping of variables
avg_responses = dataset %>%
  group_by(Continuation, Condition) %>%
  summarise(avg_response = mean(Response), sd = sd(Response, na.rm = TRUE))
```

```
## `summarise()` has grouped output by 'Continuation'. You can override using the
## `.groups` argument.
```

```
# plotting
ggplot(avg_responses, aes(x = Condition, y = avg_response, fill = Continuation)) +
  geom_bar(stat = "identity", position = "dodge") +
  geom_errorbar(aes(ymin = avg_response - sd, ymax = avg_response + sd), na.rm = TRUE, position = posit
  labs(title = "Average Response by Condition and Continuation",
       x = "Condition",
       y = "Average Response") +
  theme_minimal()
```




```
# bar plot with separate graphs for original and created prompts
# finding average responses for each grouping of variables including study
avg_responses_S = dataset %>%
  group_by(Continuation, Condition, Study) %>%
  summarise(avg_response = mean(Response), sd = sd(Response, na.rm = TRUE))
```

```
## `summarise()` has grouped output by 'Continuation', 'Condition'. You can
## override using the `.groups` argument.
```

```
# plotting
ggplot(avg_responses_S, aes(x = Condition, y = avg_response, fill = Continuation)) +
  geom_bar(stat = "identity", position = "dodge") +
  facet_wrap(~ Study) +
```

```
geom_errorbar(aes(ymin = avg_response - sd, ymax = avg_response + sd), na.rm = TRUE, position = positi
labs(title = "Average Response by Condition and Continuation, separated by study",
     x = "Condition",
     y = "Average Response") +
theme_minimal()
```