library(dplyr)

library(readr)

# Load the dataset

df <- read\_csv("C:/Users/Dell/OneDrive - gazelle/Documents/FPM Research/AI consciousness/brainwave\_adjusted\_emotions.csv")

# Define the function to infer emotions based on brainwave voltages

infer\_emotions <- function(df) {

df <- df %>%

mutate(Inferred\_Emotion = case\_when(

Alpha\_Voltage >= 80 & Alpha\_Voltage <= 90 ~ "Cautious",

Beta\_Voltage >= 91 & Beta\_Voltage <= 100 ~ "Ambition",

Beta\_Voltage >= 101 & Beta\_Voltage <= 110 ~ "Greed",

Theta\_Voltage >= 111 & Theta\_Voltage <= 120 ~ "Fear",

TRUE ~ "Unknown" # Fallback if no conditions are met

))

return(df)

}

# Apply the function

df\_inferred <- infer\_emotions(df)

# Specify the path for the new output file with inferred emotions

output\_file\_path <- "C:/Users/Dell/OneDrive - gazelle/Documents/FPM Research/AI consciousness/inferred\_emotions.csv"

# Save the dataset with inferred emotions

write\_csv(df\_inferred, output\_file\_path)

# Print a message indicating completion

print("The dataset with inferred emotions has been saved.")