Bellabeat Daily_Activity Rmarkdown

2025-09-23

```
knitr::opts_chunk$set(echo = TRUE)
```

Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

Setting up Environment

"'{install.packages("tidyverse") library(tidyverse) install.packages("shape") library(shape) install.packages("janitor") library(janitor) install.packages("tidyr") library(tidyr) install.packages("ggplot2") library(ggplot2) install.packages("dplyr") library(dplyr)

daily_activity <- read.csv("dailyActivity_merged.csv")

```
## Performing Data Analysis
```colnames(daily_activity)
glimpse(daily_activity)
```

Summary Statistics For the daily activity dataframe:

daily_activity %>%
select(TotalSteps, TotalDistance, SedentaryMinutes) %>% summary() # this will allow you to check for the mean, median, mode, etc. among other attributes to gather insights

Including Plots/Visualization

You can also embed plots, for example:

"'ggplot(data = daily_activity) + geom_point(mapping = aes(x = TotalSteps, y = Calories)) + geom_smooth(mapping = aes(x = TotalSteps, y = Calories), method = "lm", se = TRUE) + scale_x_continuous(breaks = seq(0, max(daily_activity$TotalSteps, na.rm = TRUE), by = 5000)) + labs(title = "Activity Logs of College Students Spring 2016", subtitle = "Exploring the Relationship between Total Steps Taken and Calories Burned", caption = "Data Collected by Robert Furberg, Julia Brinton, Michael Keating, and Alexa Ortiz")

"'

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.