assignment_05_MukherjeeChitramoy-01

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`r Sys.Date()`

`{r setup, include=FALSE} knitr::opts_chunk$set(echo = TRUE)`

Set the working directory to the root of your DSC 520 directory setwd("C:/Users/chitro/Desktop/dsc520-fork-chitro")

Load the `data/student-survey.csv` to heights_df <- read.csv("data/r4ds/heights.csv")

"'{r , echo=TRUE}

setwd("C:/Users/chitro/Desktop/dsc520-fork-chitro") heights_df <- read.csv("data/heights.csv")

Using `cor()` compute correclation coefficients for

height vs. earn

cor(heights_df$height, heights_df$earn) ### age vs. earn cor(heights_df$age, heights_df$earn) ### ed vs. earn cor(heights_df$ed, heights_df$earn)

Spurious correlation

The following is data on US spending on science, space, and technology in millions of today's dollars

and Suicides by hanging strangulation and suffocation for the years 1999 to 2009

Compute the correlation between these variables

tech_spending <- c(18079, 18594, 19753, 20734, 20831, 23029, 23597, 23584, 25525, 27731, 29449) suicides <- c(5427, 5688, 6198, 6462, 6635, 7336, 7248, 7491, 8161, 8578, 9000) cor(tech_spending,suicides)

"'

#- Reference - https://www.statology.org/partial-correlation-r/ # https://www.geeksforgeeks.org/how-to-calculate-partial-correlation-in-r/