MDA102 - Statistical method

Lecture 10 13 July 2020, 6:30AM – 8:30 Dr Sharon Varghese A

MISSION

CHRIST is a nurturing ground for an individual's holistic development to make effective contribution to the society in a dynamic environment

VISION
Excellence and Service

How to load webpage

- o url() To open a webpage in R
- o readLines() To read webpage line by line and store it in vector

```
page<-url ("https://www.christuniversity.in,
readLines (page)</pre>
```

file.choose()

To select files anywhere in your system using select file v

```
data<-read.csv(file.choose()) #a csv file ca
window and stored in variable data.
View(data)
```

loading multiple R scripts

o source() - To load multiple R scripts into R console and execute

```
source("w1.R")
source("w2.R")
## [1] 11
```

some file functions

file.copy() - To create a copy of a file from R environment

```
source("w1.R")
file.copy("w1.R","w1_copy.R")
## [1] FALSE
source("w1_copy.R")
```

Missing values

Two types of missing values

- NA , not available
- NaN, not a number
- NaN are NA values but not vice versa
- is.na()#returns logic vector based NA values

```
x<-c(1,8,5,NA,8)
x
## [1] 1 8 5 NA 8
is.na(x)#check NA in x and returns a logic
## [1] FALSE FALSE TRUE FALSE</pre>
```

complete.cases()

```
data<-read.csv("data.csv")
data_1<-
data.frame(data$Year,data$Area..in.1000hect
nes.,stringsAsFactors = FALSE)
#View(data_1)</pre>
```

complete.cases(data_1) #to recellence and service or for is having missing values or not.

Missing values – contd...

```
x<-c(1,8,4,NaN,5,6)
x
## [1] 1 8 4 NaN 5 6
is.nan(x) #to check NaN
## [1] FALSE FALSE FALSE TRUE E
x<-c(1,8,4,NaN,5,NA)
x
## [1] 1 8 4 NaN 5 NA
is.na(x) #NaN is a subset of NA.
NaN also.
## [1] FALSE FALSE FALSE TRUE E
is.nan(x) #NA is not NaN always
## [1] FALSE FALSE FALSE TRUE E</pre>
```

Missing values – contd...

```
complete.cases()
    data<-read.csv("data.csv")
    data_1<-
    data.frame(data$Year,data$Area..
    roduction..1000.tones.,stringsAs
    #View(data_1)
    complete.cases(data_1) #to return
    depending on wheter row is havin
    not</pre>
```

Missing values – contd...

```
## [1] TRUE TRUE TRUE TRUE
TRUE TRUE TRUE TRUE
## [13] TRUE TRUE TRUE TRUE
TRUE TRUE TRUE TRUE
## [25] TRUE TRUE TRUE FALSE
TRUE TRUE TRUE FALSE TRUE
## [37] TRUE TRUE FALSE TRUE
## [49] FALSE FALSE
```

Complete.cases() is used to subset dataframe values.

```
complete_data<-data_1[complete.c
View(complete data)</pre>
```