

# Assignment1

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```
knitr::opts_chunk$set(echo = TRUE, comment = NA)
```

1. The Assignment consists of the data regarding the IMDB rating, which includes both quantitative and qualitative variables. Dataset Source: <https://www.kaggle.com/datasets/harshitshankhdhar/imdb-dataset-of-top-1000-movies-and-tv-shows>

```
library(readr)
library(knitr)
library(tinytex)
library(latexpdf)
movies <- read_csv("C:/Users/Harshini/Downloads/imdb_top_1000.csv")
```

Rows: 1000 Columns: 16

```
-- Column specification -----
Delimiter: ","
chr (12): Poster_Link, Series_Title, Released_Year, Certificate, Runtime, Ge...
dbl (3): IMDB_Rating, Meta_score, No_of_Votes
num (1): Gross
```

- 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.

```
View(movies)
```

2. Descriptive Statistics for the variables "Runtime" and "IMDB\_Rating"

```
summary(movies[,c('Runtime' , "IMDB_Rating")])
```

Runtime	IMDB_Rating
Length:1000	Min. :7.600
Class :character	1st Qu.:7.700
Mode :character	Median :7.900
	Mean :7.949
	3rd Qu.:8.100
	Max. :9.300

3. Transforming the "IMDB\_Rating" variable into Square Root

```
square_IMDB_Rating <- (movies$IMDB_Rating)^(1/2)
square_IMDB_Rating
```

[illegible]

[illegible]

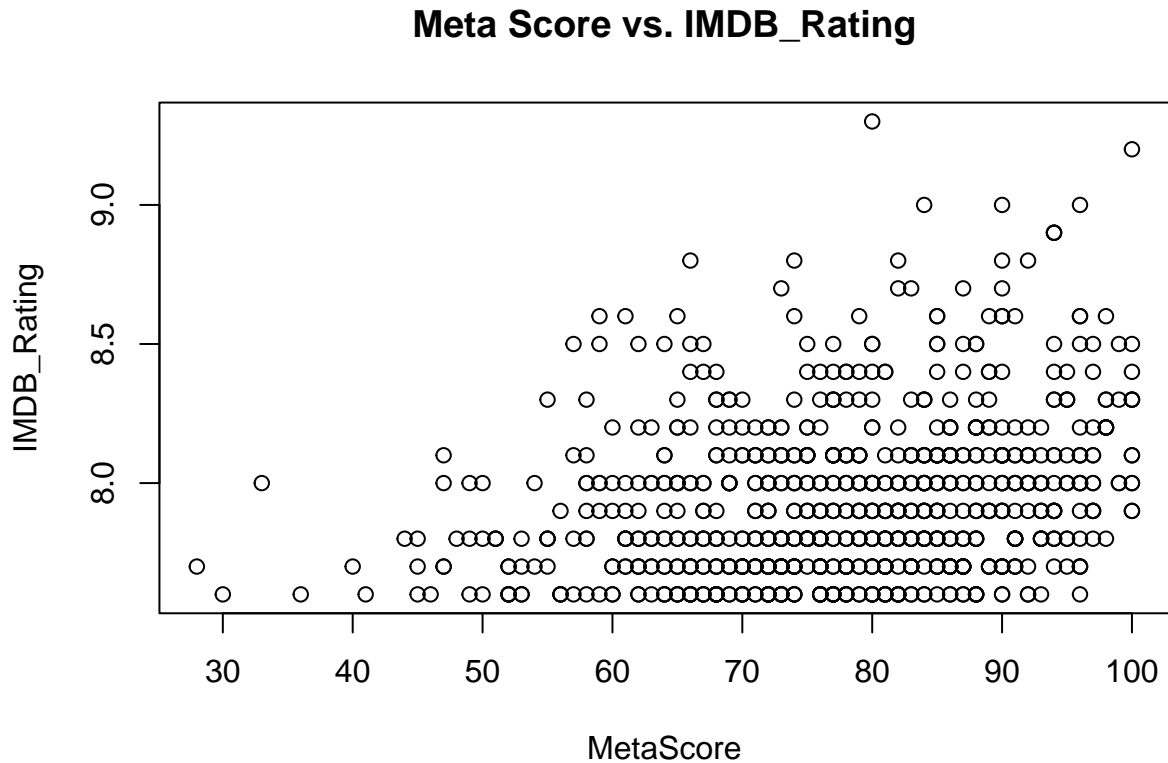
```

[833] 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887
[841] 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887
[849] 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887
[857] 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887
[865] 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887 2.774887
[873] 2.774887 2.774887 2.774887 2.774887 2.774887 2.756810 2.756810 2.756810
[881] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810
[889] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810
[897] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810
[905] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810
[913] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810
[921] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810
[929] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810
[937] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810
[945] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810
[953] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810
[961] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810
[969] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810
[977] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810
[985] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810
[993] 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810 2.756810

```

4. Plotting the variables “Meta Score” and “IMDB\_Rating” against each other

```
plot(movies$Meta_score, movies$IMDB_Rating, main= "Meta Score vs. IMDB_Rating", xlab='MetaScore', ylab=
```



5. Scatter Plot for the variables “Meta Score” and “IMDB\_Rating”

```
library(ggplot2)
ggplot(data=movies, aes(x=Meta_score, y=IMDB_Rating)) + geom_point(color = "red", size = 2) +
  labs(title = "Scatter Plot of metascore vs. IMDB_Rating")
```

Warning: Removed 157 rows containing missing values ('geom\_point()').

