



UNIVERSITY INSTITUTE OF ENGINEERING

Department of Computer Science & Engineering

Subject Name: Data Mining Lab

Subject Code: 20CSP-376

Submitted to: Submitted by:

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UID: 20BCS5436

Section: DM-611

Group: B







Experiment-1.2

Student Name: Rithik raj UID: 20BCS5436

Branch: BE CSE Section/Group: 611/B

Semester: 6th Date of Performance: 24/02/2023

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1. Aim/Overview of the practical:

To perform the statistical analysis of data.

2. Apparatus / Simulator Used:

- Windows 7 or above
- R Studio

3. Objective:

- > Represent the reading of file using R Studio.
- > Displaying the pattern on Weka Tool.
- Find mean, median and standard deviation of particular columns.

4. Script and Output:

5. *Code*:

library(Rweka)

 $N=read.arff("Student_frame.arfr")$







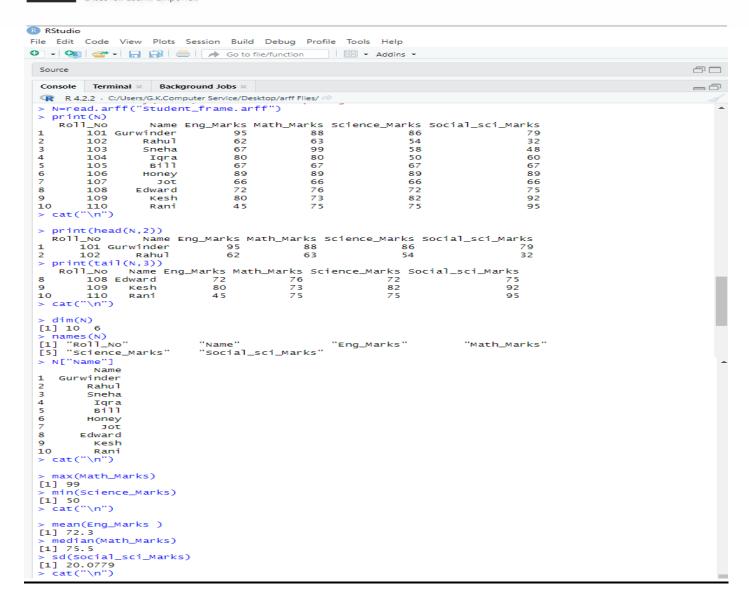
```
print(N)
 cat("\n")
                                         #used to skip lines
 print(head(N,2))
                                          #used to print first 2 rows
                                         #used to print first 3rows
 print(tail(N,3))
 cat("\n")
                                         #used for finding dimensions
 dim(N)
 names(N)
 N["Name")
 cat("\n")
 max(Math_Marks)
                                        #maximum from column
min(Science_Marks)
                                        #minimum from column
cat("\n")
 mean(Eng_Marks)
                                                # mean
Median lath_Marks)
                                                # median
 (cial_sci_Marks)
                                                # standard deviation
 cat("\n")
 summary(N)
```

Output:















```
> summary(N)
  Roll_No
                Name
                              Eng_Marks
                                           Math_Marks Science_Marks
Min. :101.0 Length:10 Min. :45.00 Min. :63.0 Min. :50.00
1st Qu.:103.2 Class:character 1st Qu.:66.25 1st Qu.:68.5 1st Qu.:60.00
Median:105.5 Mode:character Median:69.50 Median:75.5 Median:69.50
Mean :105.5
                             Mean :72.30 Mean :77.6 Mean :69.90
3rd Qu.:107.8
                             3rd Qu.:80.00 3rd Qu.:86.0 3rd Qu.:80.25
                             Max. :95.00 Max. :99.0 Max. :89.00
Max. :110.0
Social_sci_Marks
Min. :32.0
1st Qu.:61.5
Median:71.0
Mean :70.3
3rd Qu.:86.5
Max. :95.0
```

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

| Sr. No. | Parameters | Marks Obtained | Maximum Marks |
|---------|------------|----------------|---------------|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |

Conclusion:-

I have successfully completed this experiment.

