

Experiment-1.4

Student Name: Aayush Gurung UID:20BCS5323

Branch: CSE Section/Group:DM_607(A)

Semester: 6 Date of Performance:09-03-2023

Subject Name: DM LAB Subject Code: 20CSP-376

1. Aim:

Demonstration of FP Growth algorithm on Mushroom data.

2. Code:

```
getwd() library("arules")

//creating library

data("Mushroom")

//creating dataset

fprules <- fim4r(Mushroom, method = "fpgrowth", target = "rules", supp = 70, conf = 60)fprules

inspect(fprules[1:5])

x <- as(fprules,"data.frame") write.csv(x,

file="mushroomrules.csv")</pre>
```

7914

3. Output:

```
Console Terminal × Background Jobs
R 4.2.2 · ~/
> library("arules")
> data("Mushroom")
> fprules <- fim4r(Mushroom, method = "fpgrowth", target = "rules", supp = 70, conf = 60)
Package fim4r is required.
Download and install the package?
1: Yes
Selection: Yes
Installing package into 'C:/Users/ASUS/AppData/Local/R/win-library/4.2' (as 'lib' is unspecified) trying URL 'https://mhahsler.github.io/arules/docs/fim4r/fim4r_latest.tar.gz'
 > fprules
 set of 168 rules
 > inspect(fprules[1:5])
                                   rhs
                                                                        confidence lift count
      1hs
                                                             support
     {} => {VeilType=partial} 1.0000000 1.0000000 1 
{VeilColor=white} => {VeilType=partial} 0.9753816 1.0000000 1
 [1] {}
                                                                                              8124
                                                                                               7924
 7924
                                                                                               7924
```

[5] {GillAttached=free} => {VeilType=partial} 0.9741507 1.0000000 1

> x <- as(fprules, "data.frame")

write.csv(x, file="mushroomrules.csv")

Discover. Learn. Empower.

