Assignment 1

2023-04-08

Task1

Task1.a

The dimension of the sample data is 40000x56, 40000 rows and 56 columns The following are categorical ordinal data with numerical values to represent order: The Affect columns which start with "aff" are all numerical discrete data that ranges from 1 to 5 to show very slightly to extremely, likelihood ("PLRAC and PLRAE") is similar with a range of 1 to 8, Societal Discontent ("disc") with a range of -2 to 2, Job insecurity ("jbInsec") with a range of -2 to 2, Employment status ("emplostatus") are split into multiple different categories each representing a range of hours worked, Perceived financial status ("PFS") with a range of -2 to 2, Disempowerment ("fail") with a range of -2 to 2, Lift satisfaction is split into three ("happy, lifeSat, MLQ) which ranges from 1 to 10, 1 to 6 and -3 to 3 respectively, Corona Community Injunctive ("c19Norm" and "c19") ranging from value of -3 to 3 and 1 to 6, Trust in Government ("trustGov") ranging from 1 to 5

Next up are the numerical values that represent

```
setwd("D:/Desktop/R files/3152 Files")
set.seed(32210213)
cvbase = read.csv("PsyCoronaBaselineExtract.csv")
cvbase <- cvbase[sample(nrow(cvbase), 40000), ] # 40000 rows
# getting the dimension
dim(cvbase)
```

```
## [1] 40000    54
```

```
# checking how many columns are numerical attributes and how many are categorical
head(cvbase)
```

```
##       affAnx affBor affCalm affContent affDepr affEnerg affExc affNerv affExh
## 19230      1      5       4          1       1        3      2       1      1
## 53371      2      2       4          1       1        2      1       1      1
## 60208      3      2       2          3       3        4      2       2      1
## 44965      2      2       3          3       1        2      3       3      1
## 27626      3      4       2          2       2        1      1       4      2
## 48419      4      1       3          3       2        1      1       3      1
##       affInsp affRel PLRAC19 PLRAEco disc01 disc02 disc03 jbInsec01 jbInsec02
## 19230       1      4       2       1      1      1      1        NA        NA
## 53371       3      3       2       3      1      1     -1        -1         1
## 60208       3      4       3       2      1      1     -1        -1         1
## 44965       3      3       1       5      1      1      0        -1         0
## 27626       1      2       4       7      1      1     -1        NA        NA
## 48419       2      3       4       5      2      2     -1         1        -1
```

1

```
##       jbInsec03 jbInsec04 employstatus_1 employstatus_2 employstatus_3
## 19230        NA        NA             NA             NA             NA
## 53371         0        -2             NA              1             NA
## 60208         0        -1             NA             NA              1
## 44965        -1        -2             NA             NA             NA
## 27626         2        NA             NA             NA             NA
## 48419         1         1              1             NA             NA
##       employstatus_4 employstatus_5 employstatus_6 employstatus_7
## 19230             NA             NA             NA             NA
## 53371             NA             NA             NA             NA
## 60208             NA             NA             NA             NA
## 44965             NA             NA             NA              1
## 27626              1             NA             NA             NA
## 48419             NA             NA             NA             NA
##       employstatus_8 employstatus_9 employstatus_10 PFS01 PFS02 PFS03 fail01
## 19230             NA             NA              NA    -2     0    -2     -1
## 53371             NA             NA              NA    -2    -1    -2     -1
## 60208             NA             NA              NA     2     2     1     -1
## 44965             NA             NA              NA     0     1    -1     -1
## 27626             NA             NA              NA     1     2     0      0
## 48419             NA             NA              NA    -2     0    -2      0
##       fail02 fail03 happy lifeSat MLQ c19NormShould c19NormDo c19IsStrict
## 19230     -1     -1     5       5   3             3        -2           4
## 53371     -1      0     8       5   1            -1         1           3
## 60208     -1     -1     6       3   1             2         1           3
## 44965     -1      0     7       4   2             3         3           5
## 27626     -1      1     3       2  -2             3         3           6
## 48419      0      1     5       4   3             1         1           5
##       c19IsPunish c19IsOrg trustGovCtry trustGovState gender age edu
## 19230           4        2           NA            NA      1   1  NA
## 53371           4        2            3             2      2   2   4
## 60208           4        2            3             2      2   2   5
## 44965           3        4            5             5      2   7   5
## 27626           6        4            2             3      1   2   4
## 48419           5        2            1             3      1   3   6
##                 coded_country c19ProSo01 c19ProSo02 c19ProSo03 c19ProSo04
## 19230                 Germany          2          1          1          0
## 53371                  Russia          1          1         -1          0
## 60208                  Turkey          2          1          1          1
## 44965             South Korea          2          3          1          0
## 27626 United States of America          1          0          1          1
## 48419                  Poland          1          0          1          1
```

```r
max(na.omit(cvbase[,"trustGovCtry"]))
```

```
## [1] 5
```

```r
min(na.omit(cvbase[,"trustGovCtry"]))
```

```
## [1] 1
```