University of St.Gallen

Classification

University of St. Gallen
School of Management, Economics, Law,
Social Sciences, International Affairs
and Computer Science

Assignment 4

Data Analytics I: Predictive Econometrics
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submitted by

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Requirements

To solve the following tasks, the required libraries and the data sets are loaded first.

```
library(rpart)
library(rpart.plot)

load("GHA/drugs.RData")
```

Exercise 1

The share of males who consume soft drugs is ~29.18%

```
(m_s_drug <- (nrow(drugs[drugs$Gender=="male" & drugs$Soft_Drug==T,]) /
   nrow(drugs[drugs$Gender=="male",])) |>
   {\(x) round(x*100, digits = 2)}() |>
   paste0("%"))
```

```
## [1] "29.18%"
```

Exercise 2

The difference between the share of male and female hard drug consumers is ~2.74%

```
m_h_drug <- nrow(drugs[drugs$Gender=="male" & drugs$Hard_Drug==T,]) /
   nrow(drugs[drugs$Gender=="male",])

f_h_drug <- nrow(drugs[drugs$Gender=="female" & drugs$Hard_Drug==T,]) /
   nrow(drugs[drugs$Gender=="female",])

(diff_h_drug <- (m_h_drug - f_h_drug) |>
      {\(x) round(x*100, digits = 2)}() |>
      paste0("%"))
```

```
## [1] "2.74%"
```