# Analyse de GermanCredit avec les methodes de Machine Learning

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# Chapter 1

# introduction

La demarche d' *analyse* avec **R** est une étape importante du statisticien dans son travail .

ce livre présente les analyses faite sur la base des données **Ferman Crédit** dans lequel nous abordons les méthodes der machine learning avec le **Tidymodels** package.

Chargeons donc les libraries néccasaires

Chargeons nos données

```
library(caret) # pour ls donnes GermanCredit
data("GermanCredit")
```

Remember each Rmd file contains one and only one chapter, and a chapter is defined by the first-level heading `#`.

Vous trouverez les contenu de ce libre dans mon *github* : https://github.com/schadramulekya/.

# Chapter 2

# Description de la base des données

Data from Dr. Hans Hofmann of the University of Hamburg.

These data have two classes for the credit worthiness: good or bad. There are predictors related to attributes, such as: checking account status, duration, credit history, purpose of the loan, amount of the loan, savings accounts or bonds, employment duration, Installment rate in percentage of disposable income, personal information, other debtors/guarantors, residence duration, property, age, other installment plans, housing, number of existing credits, job information, Number of people being liable to provide maintenance for, telephone, and foreign worker status.

Many of these predictors are discrete and have been expanded into several 0/1 indicator variables

Source UCI Machine Learning Repository

Reference a figure by its code chunk label with the `fig:` prefix

```
library(caret)
```

```
## Loading required package: lattice
```

```
## Loading required package: ggplot2
```

```
data("GermanCredit")
```

You can write citations, too. For example, we are using the **bookdown** package (Xie, 2021) in this sample book, which was built on top of R Markdown and **knitr** (Xie, 2015).

```
library(DT)
#datatable(GermanCredit,options = list(pageLength = 5))
```

```
#datatable(GermanCredit,class = 'cell-border stripe')
```

# Chapter 3

# Literature

Here is a review of existing methods.

# Chapter 4

# Methods

We describe our methods in this chapter.

# Chapter 5

# Applications

Some *significant* applications are demonstrated in this chapter.

## 5.1 Example one

## 5.2 Example two

# Chapter 6

# Final Words

We have finished a nice book.

# Bibliography

Xie, Y. (2015). *Dynamic Documents with R and knitr*. Chapman and Hall/CRC, Boca Raton, Florida, 2nd edition. ISBN 978-1498716963.

Xie, Y. (2021). *bookdown: Authoring Books and Technical Documents with R Markdown*. R package version 0.22.