Machine Learning - 1100-ML0ENG (Ćwiczenia informatyczne Z-23/24)

Introduction

Tidyverse

The tidyverse package is a set of packages for complex data processing and visualisation.

```
install.packages("tidyverse")
library(tidyverse)
```

Core R Packages in **tidyverse**

1. Data Wrangling and Transformation
   - dplyr
   - tidyr
   - stringr
   - forcats
2. Data Import and Management
   - tibble
   - readr
3. Functional Programming
   - purrr
4. Data Visualization and Exploration

  - ggplot2

R is known to be a really powerful programming language when it comes to graphics and visualizations in addition to statistics and data science.

Graphics in R can be done in three ways

1. **graphics package** (the base graphics in R, loaded by default)
2. **lattice package** which adds more functionalities to the base package
3. **ggplot2 package** (which needs to be installed and loaded beforehand)

The **graphics package** comes with a large choice of plots (such as **plot, hist, boxplot, pie**, etc.). It is often the preferred way to draw plots for most R users, and in particular for beginners to intermediate users.

During the class I would like to introduce you to the **ggplot2 package.** Since its creation in 2005 by Hadley Wickham, ggplot2 has grown in use to become one of the most popular R packages and the most popular package for graphics and data visualizations. More information about the package can be found at ggplot2.tidyverse.org.

Data


```
house <- read.csv("HousePrices.csv",stringsAsFactors = TRUE)
summary(house)
str(house)
```

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Accessibility settings

Przetwarzanie danych osobowych

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Informacje na temat logowania

Na platformie jest wykorzystywana metoda logowania za pośrednictwem Centralnego Systemu Logowania.

Studentów i pracowników Uniwersytetu Łódzkiego obowiązuje nazwa użytkownika i hasło wykorzystywane podczas logowania się do systemu USOSweb.

Deklaracja dostępności