**Data-driven decision making and automation with R**

**15-17, April and 20-22, May**

Ability to extract value from business data is crucial in any competitive environment. However, the variety, volume and velocity at which data is being generated in 2020 may limit or block these attempts. In 3 days learn how to employ R programming language, RStudio, statistics and the elements of machine learning to automate data analysis and arrive at data-driven decisions that benefit your business.

You will learn:

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* Optimize budget spending by predicting customer behaviour.
* Automate complex analysis from data import to creation of PDF/HTML reports.
* Use clustering for marketing analytics.
* Optimize investment decisions with diversification.
* Automate data collection with web scraping.
* Analyse online controlled experiments ([A/B testing](https://hbr.org/2017/09/the-surprising-power-of-online-experiments)) that allow you to establish a causal relationship.
* Avoid being fooled by randomness.

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| **Who is this course for?** | Analysts using high volumes of data to arrive at useful business conclusions. |
|  | <OR> Data analysts, risk analysts, data scientists and other professionals using high volumes of data to arrive at useful conclusions |
|  | <OR> Analysts willing to extract business value from high volumes of data |
| **Course format:** | 3 full days, instructor-led |
| **Practice-theory split:** | 80% practice and 20% theory. |
| **Size of the group:** | Up to 10 persons. |
| **Price:** | 400 EUR |
| **Where:** | Riga |
| **Language:** | English, Latvian or Russian, depending on the group. |
| **Prerequisites:** | Experience in analysing high volumes of data in Excel or any other tool. Prior experience in programming is an advantage, but not essential. |

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Learn more about the skills you will acquire, about the instructor and exactly why R is the correct tool.

**Instructor**

Dmitrijs Kass, head of data science at Creamfinance and an independent data science consultant. Dmitrijs is also regularly teaching data analysis and visualization with R programming language for businesses and students at Physics, Mathematics and Optometry faculty of Latvian University. Dmitrijs is passionate about data science and enjoys sharing his practical experience and explaining complex concepts in simple ways that lead to understanding.

**Skills you will acquire**

* R syntax, data structures, loops, control flow, writing R functions.
* Knowledge about the most popular R packages.
* Data import from conventional and unconventional data sources, including SQL database and web scraping.
* Data cleaning.
* Table manipulations and joins.
* Elegant visualization.
* Descriptive statistics, confidence intervals, statistical distributions and tests.
* Communication of analysis results with RMarkdown.
* Autonomous execution of R scripts at the scheduled time.

**Why R?**

R is a free open-source programming language and an environment that, along with Python, has become an industry standard for data science and machine learning. R and RStudio together offer great tools for a broad range of business and academic needs: from exploratory data analysis, reproducible research, statistics, machine learning, automated data processing and web scraping to building interactive reports and web applications.

**Are you a group of 4+?**

The course may be organized on a different day at your premises.

**Do you need a different topic, venue or date?**

The content may be tailored to your needs - please send a description of topics you would like to cover using this form.

**Testimonials**

The course on data analysis and visualization with R on 150+ business representatives and earned honourable reviews.

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