# Eltecon Data Science Course by Emarsys Sample project for a continuous prediction problem

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#### About me

- Background in Economics
- Works as Data Scientist @ Emarsys

## **Today's topics**

- How to set up a project?
- Doing a sample project together

## Use git, if you know how (not necessary)

• You can submit homeworks there, using your own repository.

## Make sure your code is easy to run for others!

- Most of the time others will have to run your code. Make it easy for them!
- "Caveat: only you can decide how much you care about this." [1]
- [1] https://www.tidyverse.org/blog/2017/12/workflow-vs-script/
- [2] https://martinctc.github.io/blog/rstudio-projects-and-working-directories-a-beginner's-guide/

#### Some suggestions

- Use R projects
- Use the here package
- Best practice depends on the situation we don't use R projects in the class either
  - Definatelly recommended for final project
  - It helps in the homeworks as well

### What should be part of a prediction project?

- Understand your data
- Data cleaning
- EDA (for selecting features for your model)
- Modelling
- Evaluating the model
- How the output should look like

#### Let's do it!

You will do every step by yourself first or you can do it with your partner!

After that I will show you my solution!

Use data/laptop\_price.csv

#### **Homework**

- Homework:
  - Choose a data, which you will use for your final project!
  - Explore the data, what kind of features/variables you have. Is it good for you final project?
  - Based on this you will have to decide on your research question for your final project!
  - Eg.: I will be predicting XY, this and that feature will probably be helpful as features in my model (proved by plots or some statistics).
- You have 3 weeks for this homework (until 3rd of November)!
- (There will be another homework for that week as well, so make sure you start in time!)