

# INTRO TO THE COURSE

# ABOUT THE COURSE

- Machine Learning is a very hot topic for Economist and Business majors
- Difficulty of the Course
  - For the course:
    - Matrix Algebra is **not** required and will **not** be used
    - Calculus is **not** required and will **not** be used
    - Programming knowledge is **not** required. The basic R knowledge you need is introduced in class and in the book.
  - Support
    - Everybody can get a good grade! Do the work and ask me for help if needed (I will spend all the time needed with you)
- Materials
  - The book is available for free online: <https://econ.lange-analytics.com/aibook> (user name: aibook, pw: I let you know in class). Shameless self promotion. You can buy the book from Francis & Taylor starting October 2023.
  - Presentation slides are available online at <https://aibookslides.netlivly.app>

# HOW TO WORK ON A WEEKLY BASE

- Before class (+/- 0:45h)
  - read related chapter online before class (you can quickly read over the interactive sections)
  - do not use a phone – tablet with decent size is OK
  - if there is something you do not understand (possibly make a note) and keep on reading – no problem
- Do not miss class sessions!
  - in class I walk you through the topics step by step.
  - you can ask questions about each topic you are interested in or you like to get more information.
  - you will do exercises in class and I will help, if you get stuck.
- After class (+/- 1.5h)
  - read the book chapter again
  - read it at a computer with R and RStudio installed
  - follow the interactive exercises in RStudio
  - write down questions you have and ask them next time in class

# REWARD/RETURN OF GOOD WORK INSIDE AND OUTSIDE OF CLASS

- Good grade
- You get an understanding of machine learning that enables you:
  - to talk about machine learning algorithms during an interview
  - to use machine learning on your Senior Project/Master Thesis
  - to build on the knowledge from the course by reading more advanced articles and watching videos to become an expert.

# YOUR QUESTIONS