



{ p r o g r a m m i n g }

Introduction to Machine Learning Tools

August 12th, 2020

Purpose of the workshops

- Hands-on experience with machine learning
- Small end-to-end projects
- Inspire, learn new things and have fun!

Introduction to Jupyter Notebook

What is it?

- A very popular and powerful tool that combines:
 - Code
 - Rich text
 - Images
 - Mathematical equations
 - Plots
 - Interactive figures and widgets

...and much more, into a single document.



Introduction to Jupyter Notebook

Let's try it out!

1. Download .ipynb file from <https://github.com/mykys>
2. Open the file in <https://jupyter.org/try>

Introduction to Jupyter Notebook

Exercise

1. Add new cell

- a. `[+]`
- b. `esc + a`
- c. `esc + b`

2. Remove cell

- a. `[scissor]`
- b. `esc + dd`

3. Run cell

- a. `Shift + enter`

scikit-learn

Why use scikit-learn?

- A very popular library for machine learning
- Developed by a large community of developers and machine learning experts
- High quality and easy to use implementations of popular algorithms
- Really good documentation



pandas

Why use pandas?

- Tool for data analysis and data manipulation
- Fast (on small data), powerful, flexible and easy to use
- Commonly used in the industry

