Machine Learning and Data Mining

28. April, 2021

Literature

Literature

- Notes from classes
- C. Bishop: Pattern Recognition and Machine Learning
- K. Murphey: Machine Learning: A Probabilistic Perspective
- S. Shalev-Schwartz, S. Ben-David: Understanding Machine Learning: From Theory to Algorithms

Python

Installation

- Anaconda is a distribution of the Python and R programming languages for scientific computing (data science, machine learning applications, etc.)
- https://www.anaconda.com/
- The Jupyter Notebook is an open-source web application that lets you easily write and iterate Python code for data analysis.
- https://jupyter.org/
- PyCharm
- https://www.jetbrains.com/pycharm/

Python

Installation

- https://www.python.org/downloads/
- pip install numpy

If you use pip, you can install it with:

pip install notebook

Congratulations, you have installed <u>Jupyter</u> Notebook! To run the notebook, run the following command at the Terminal (Mac/Linux) or Command Prompt (Windows):

jupyter notebook

Figure 1: pip install notebook

Anaconda

Installation

https://www.anaconda.com/distribution/

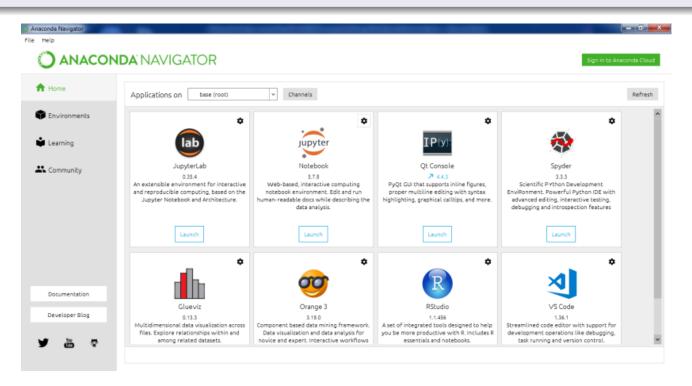
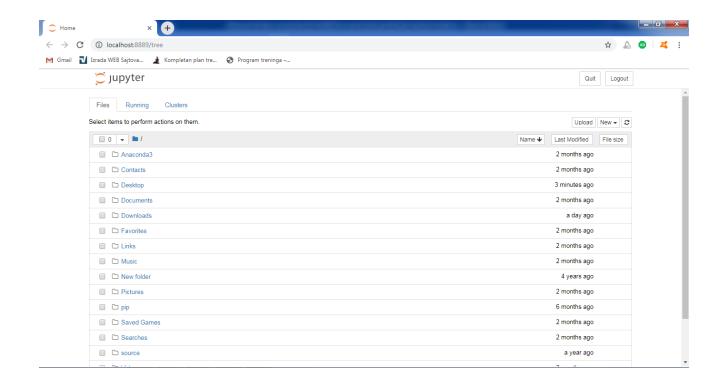


Figure 2: Programs within Anaconda Navigator

Jupyter Notebook



Jupyter Notebook

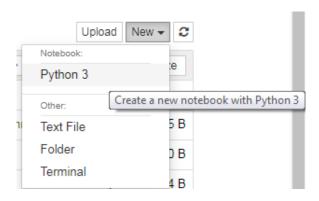


Figure 3: Creating new Jupyter notebook script



Figure 4: A blank Jupyter notebook script