

COMP7630 – Web Intelligence and its Applications

Python Environment

(I will use for Python-related topics)

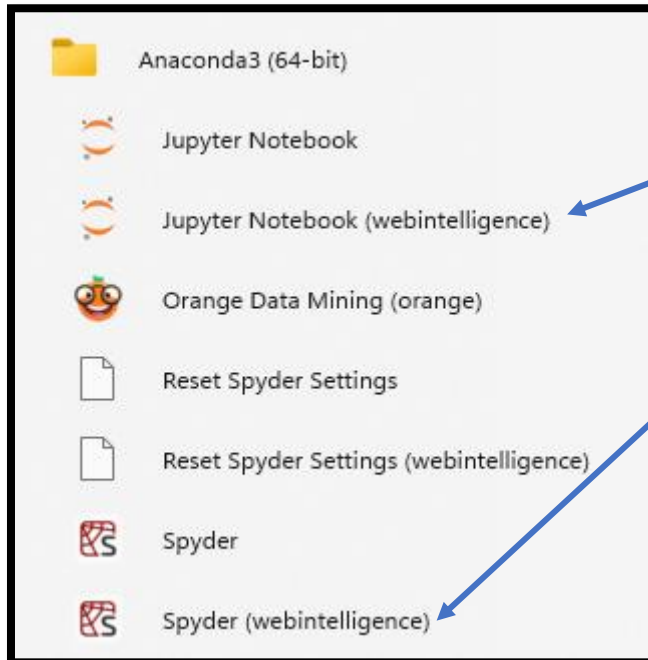
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MiniConda

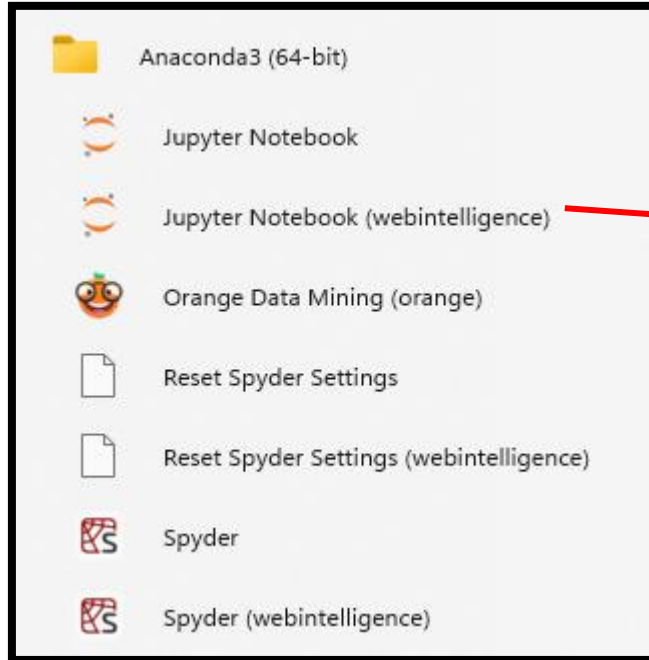
- MiniConda is one of the most popular Python distribution platform
- It is a lightweight version of Anaconda
- Documentation and download links are available at <https://docs.conda.io/projects/miniconda/en/latest/>

Once installed ...



- Launch prompt inside the `base` environment.
- Environments are sand-boxed among them and ease the management of Python packages.
- I suggest to create the `webintelligence` environment:
 - `conda create -n webintelligence`
 - `conda activate webintelligence`
 - `conda install python==3.11.5`
- It may be useful to install also Jupyter and Spyder:
 - `conda install jupyter spyder`
- Please install `pip`, the Python packages' installer:
 - `conda install pip`
 - `conda config --set pip_interop_enabled True`
- Please install `ipython`, the Improved Python interactive shell
 - `pip install ipython`
- Please install some Python packages we will use later on
 - `pip install numpy matplotlib seaborn pandas scipy scikit-learn spacy nltk nevergrad mlxtend beautifulsoup4`
- If required, we will install additional Python packages by using
 - `pip install <package_name>`

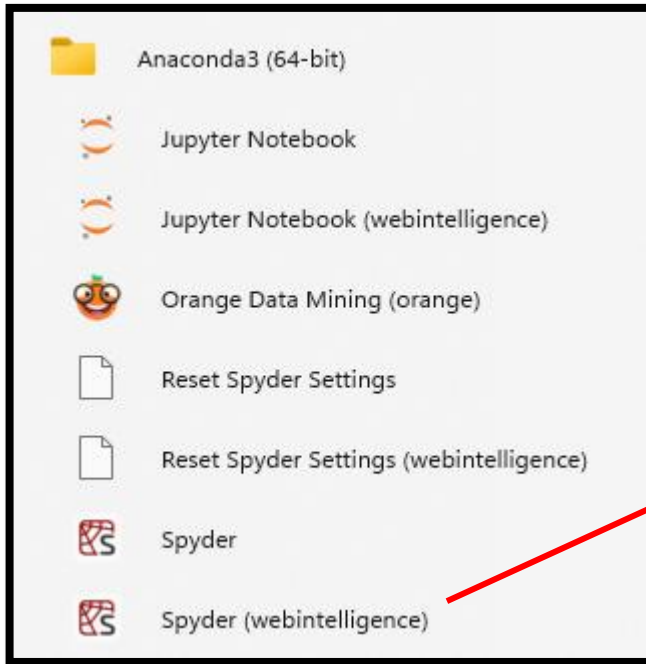
Once installed ...



It launches a local web application, then it opens your browser pointing at that web application.

It is useful to launch and open Jupyter Notebook

Once installed ...



This is a well known editor for Python. You are free to use it, but sometime I may prefer Notepad++ & a shell for running "ipython" or directly the "python" interpreter.

Notepad++ can be downloaded from <https://notepad-plus-plus.org/downloads/>

Hello World

- Create a file named `helloworld.py`
- Write the following Python statement inside `helloworld.py`
 - `print('Hello World')`
- Open the Miniconda shell (activate the "webintelligence" environment if you decided to use it) and use the following commands:
 - `cd <directory_where_you_saved_helloworld.py>`
 - `python helloworld.py`
- If you see the phrase "Hello World", your Miniconda/Python installation is working!
- You may also try to launch `ipython` and write `1+1`, you should see 2