Deep Learning

Installing Software





Installing Python on Windows

- 1. Go to https://www.python.org/downloads/release/python-3114/
- 2. Download the Windows installer (64-bit)
- 3. Run the installer
- 4. Don't forget to check the Add python.exe to PATH option before clicking on Install Now
- 5. Open a command line and enter python --version to confirm that Python3 has been installed on your machine



Testing Python

- 1. Create a working directory, for example C:\Dev\IA
- 2. Create a file named 00 hello world.py in that directory
- 3. Open the file with a text editor and write the following line: print ("Hello world")
- 4. Save and close
- 5. Open the command line in the directory where the file is located and type python hello world.py



Installing and running VS Code

- Go to https://code.visualstudio.com/, download the installer and run it
- Open a command line window in your working directory
- Type code .
 - By starting VS Code in a folder, that folder becomes our "workspace"



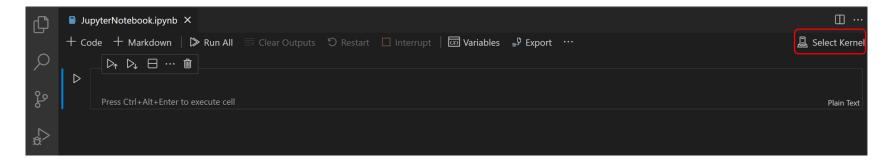
Creating a Jupyter notebook

- File -> New File -> Jupyter Notebook
- The notebook is created, and a window opens in the bottom right side of the screen asking if we want to install the Python extension from Microsoft for Python language
- Click on Install

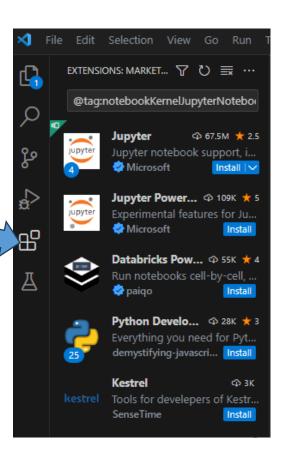


Select a Kernel

Select a kernel using the kernel picker in the top right



- Click on the Extensions icon on the left panel
- Install "Jupyter"
- Click on Install



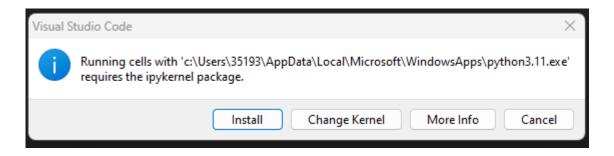


Running notebook cells

Write the following code in the first cell



- Click on the triangle to run the code cell
- Click on Install in the dialog window below





Installing the necessary libraries

• Tensorflow (and Keras)

pip install tensorflow

PTP THECATT COMPONENTS

Matplotlib
 pip install matplotlib

• Pandas pip install pandas

• Scikit-learn

pip install -U scikit-learn

Open a command line and run these commands