2. How to install libraries

(DeepKymoTracker user guide)

First of all, you need to install Anaconda. Go to https://www.anaconda.com/docs/getting-started/anaconda/install and follow the instructions.

Once the installation is finished, start typing **anac...** in the command line. The menu will open and you will see **Anaconda Prompt** (do not confuse with Anaconda Navigator!). Click on it.
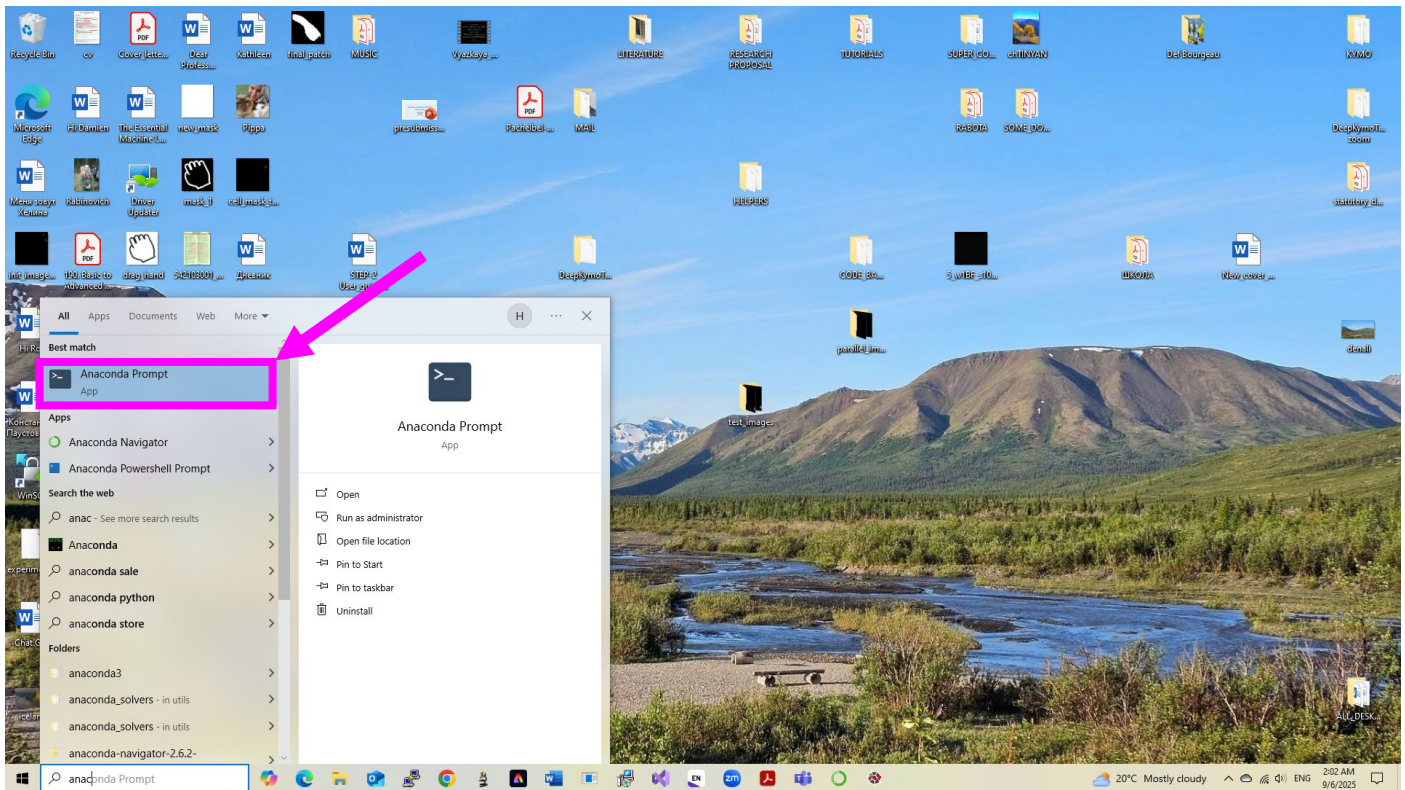
This is the window you are going to set up the environment and install the libraries through.
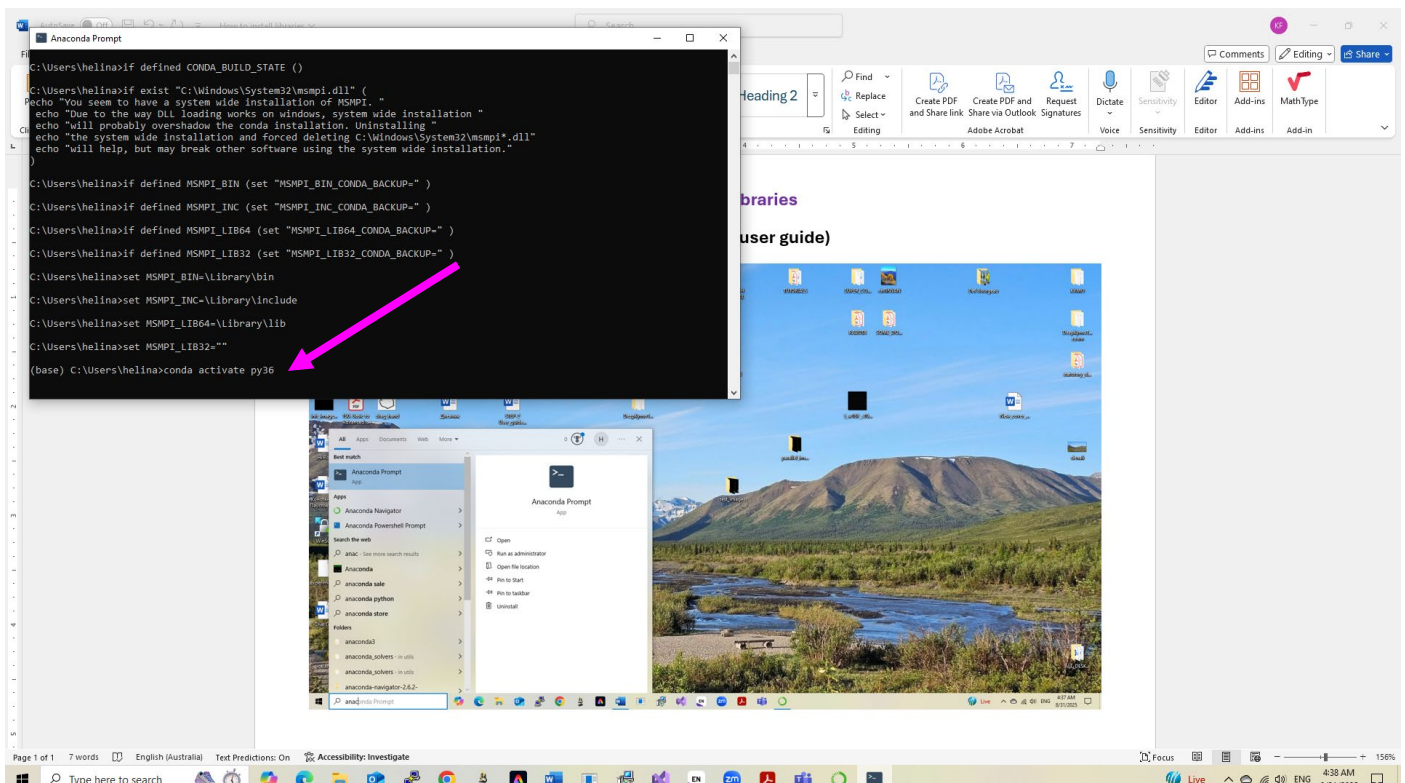
Here is the sequence of commands you need to type:

- **conda create -n py36 python=3.6.13**

    Proceed ([y]/n)? **y**
- **conda activate py36**
- *if there are no GPUS on your machine:*
    - *conda install tensorflow=1.15.0*

        Proceed ([y]/n)? y
    - *If you have GPUs:*

        conda install tensorflow-gpu=1.14.0

        Proceed ([y]/n)? **y**
- **conda install keras=2.3.1**

    Proceed ([y]/n)? **y**

- **conda install opencv=3.3.1**

    Proceed ([y]/n)? **y**

- **conda install H5py=2.10.0**

    Proceed ([y]/n)? **y**

- **conda install xlsxwriter=3.0.3**

    Proceed ([y]/n)? **y**

- **conda install pillow** (any version is fine)

    Proceed ([y]/n)? **y**

- **conda install matplotlib** (any version is fine)

    Proceed ([y]/n)? **y**

- **pip install imagecodecs**

    Proceed ([y]/n)? **y**