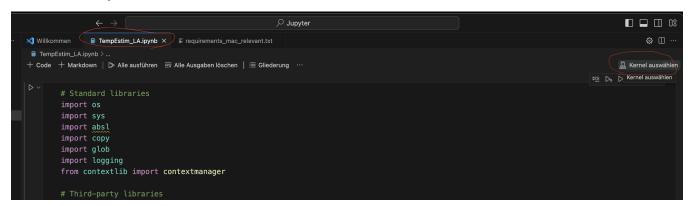
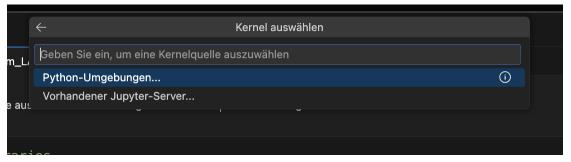
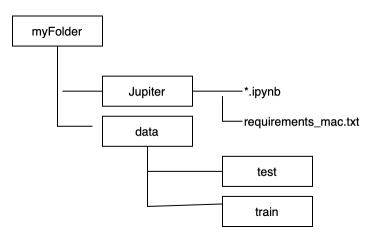
10. Jupyter notebook

- Condition
 - o Tensorflow (what we have) supports python from 3.9.x to 3.12.x
 - O Bevor installation, you have to find out where you appreciate python is installed.
 - For this project: Please use python 3.11.9
 - o in my case:





• Create two folder for test data and train data:



- Data what you need under "/Jupyter":
 - o requirements_mac.txt or requirements_win.txt
 - ° *.ipynb
 - /myFolder/Jupyter/requirement_##.txt
 - /myFolder/Jupyter/*.ipynb
- Open the folder "Jupyter".
- Ensure, you are in "/Jupyter".
- Please check python version: python3 --version
 - o for TF lite lower than Python 3.12.9
 - o for TF & *.mat lower than Python 3.11.9
- Create a virtual environment for python in terminal of VS code: python3 -m venv tf_venv
- Activate the virtual environment :
 - o für MAC: source ./tf_venv/bin/activate it creates myFolder/Jupyter/tf_venv
 - o für Windows: source
- Now your cursor should be in in /tf_venv.
- Install all required packages: pip3 install -r requirements_mac_relevant.txt

```
The default interactive shell is now zsh.

To update your account to use zsh, please run `chsh -s /bin/zsh`.

For more details, please visit https://support.apple.com/kb/HT208050.

Mac-TEST-WQ4TL493NF:testJupyter cvs_macbook4$ python3 -m venv tf_venv 1. Create venv

Mac-TEST-WQ4TL493NF:testJupyter cvs_macbook4$ ls requirements_mac.txt sinus_test.ipynb tf_venv 2.Activate venv

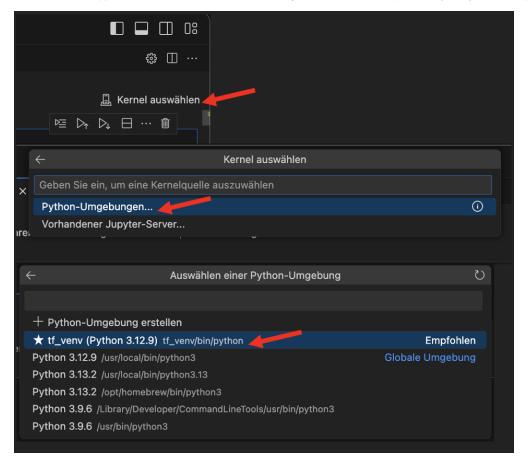
Mac-TEST-WQ4TL493NF:testJupyter cvs_macbook4$ source ./tf_venv/bin/activate 3. Install req.

(tf_venv) Mac-TEST-WQ4TL493NF:testJupyter cvs_macbook4$ pip3 install -r requirements_mac.txt

Collectin absl-pv==2.1.0 (from -r requirements mac.txt (line 1))

Now you are in the virtual evironment.
```

- Open "*.ipvnb" file.
- Select the python environment in VS Code as following: "Kernel auswählen Python-Umgebungen tf_venv(python 3.12.xx)"



You are ready to train the model.

```
target_dir_train = "../train"
target_dir_test = "../test"
```