

Deep Learning for Computer Vision

1 Conda Environment Installation

Please refer [here](#) for download anaconda navigator.

1.1 Windows

1. Get the download link [here](#).
2. Follow the steps and check the list (Add Anaconda3 to the PATH environment variable) (Please see below for reference).



3. Open the Command Prompt and type **conda** to verify the installation.

1.2 Linux

1. Open the command prompt and execute the following command

```
wget https://repo.anaconda.com/archive/Anaconda3-2024.06-1-Linux-x86_64.sh
```

2. Run the shell script by typing:

```
sh Anaconda3-2024.06-1-Linux-x86_64.sh
```

3. Accept the terms by typing **yes**.

4. Confirm the installation location by pressing **Enter**.
5. Wait until the download finishes.
6. Close the terminal and open the command prompt.
7. Conda should activate automatically, showing **(base)** at the beginning of the prompt.
8. If not, activate conda by executing the following command:

```
source ~/.bashrc
```

9. Verify by execute **conda**.

2 Creating Conda environment

1. Create a conda environment by
conda create -n env_name python=version_num -y (use env_name as **vision** and version_num as **3.8**).
2. For activating the conda environment
conda activate env_name
3. For checking available environments by executing
conda env list (* represents the current environment)

3 Vs Code installation

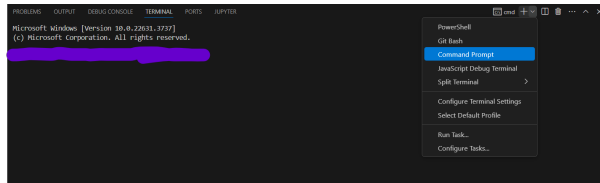
3.1 Windows/ Linux

1. For windows get the download link [here](#).
2. For Linux get the download link [here](#)
3. Following the instructions and install.
 - **For Linux:** Open the .deb file and click install.

3.1.1 Installing Environments

After finishing the installation

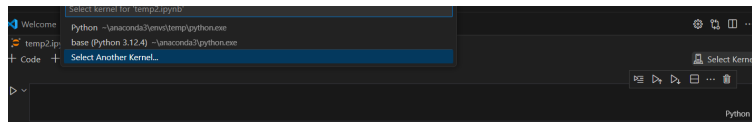
1. Open the Extensions icon from the toolbar at leftside or press **ctrl+shift+X** and install Python and Jupyter (blue tick by Microsoft) environments for VS-code.
2. Open new terminal from **Terminal** tab at top or press **ctrl+shift+`**. Command prompt will open at bottom.



3. Select Command Prompt shell (if not selected by default).
4. Activate the conda environment that we created above.
5. Run the following command to install 'ipykernel' kernel into the Python environment.
`conda install -n env_name ipykernel --update-deps --force-reinstall`
(replace env_name with particular conda environment name)

4 Setup Jupyter notebook

1. Clone the following GitHub repository by executing
`git clone https://github.com/Revanth1304/CVRDE_Lab_session.git`
2. Open the necessary.ipynb file and select the kernel by clicking **Select Kernel** at right side of 1st cell and check the environment name from the list if not click **Select Another Kernel** and select the corresponding environment.



3. Finally execute the cell.