

Getting Started with CLAP in a Conda Environment

To use the CLAP model, you need to set up a Python environment with the necessary dependencies. This guide walks you through creating and testing that environment using **Conda**.

What You'll Need

- [Miniconda](#) or [Anaconda](#) installed
- The `environment.yml` file provided to you

Step-by-Step Instructions

1. Install Miniconda (if not already installed)

Download Miniconda:
<https://docs.conda.io/en/latest/miniconda.html>

Follow the instructions for your operating system.

2. Download the `environment.yml` File

Save the `environment.yml` file in a folder on your computer (I'd choose the same folder as your homework `.ipynb`)

3. Create the Environment

In your terminal, navigate to the folder where the file is located, then run:

```
conda env create -f environment.yml
```

4. Activate the Environment

```
conda activate clap_env
```

5. Check That the Environment Works

Enter the Python interpreter by typing in the terminal:

```
python
```

Then enter these lines one by one:

```
from msclap import CLAP
model = CLAP(version="2023", use_cuda=False)
print(model)
```

If you don't see any errors and the last line prints something like `<msclap.CLAPWrapper.CLAPWrapper object at 0x...>`, your setup is working and you should be good to go

Exit the Python interpreter by typing:

```
exit()
```

6. Add the Environment to Jupyter

To make this environment available as a kernel in Jupyter:

```
python -m ipykernel install --user --name clap_env --display-name "Python (CLAP)"
```

7. Launch Jupyter Notebook

```
jupyter notebook
```

In the notebook interface, go to:

Kernel > Change kernel > Python (CLAP)

8. Once you're done with the hw, you can deactivate or remove the environment (Optional)

To deactivate:

```
conda deactivate
```

To remove the environment entirely:

```
conda remove --name clap_env --all
```

Helpful Resources

- [Managing Conda environments](#)
- [Using `environment.yml` files](#)