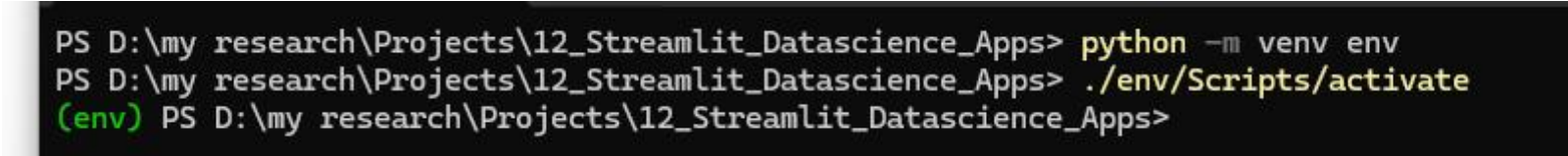


How to setup conda
environment in Windows
and make a streamlit webapp

Setting up python environments

- Download latest python version from [HERE](#) and install in in your system (in my case it is windows), which install pip as well
- I like to use venv for structuring my projects well, So, I am going to install make a venv. using this and pip:
 - `python -m venv env`
 - This will create a new folder called env inside the directory where you executed the command.
- Here is a screenshot using terminal:
- To activate it Use:
 - `./env/Scripts/activate`
- and we get (env) saying it has been activated like shown in figure.



```
PS D:\my research\Projects\12_Streamlit_Datascience_Apps> python -m venv env
PS D:\my research\Projects\12_Streamlit_Datascience_Apps> ./env/Scripts/activate
(env) PS D:\my research\Projects\12_Streamlit_Datascience_Apps>
```

Miniforge 3 on windows

- Download and install miniforge3 on windows machine from [HERE](#)
- Run miniforge as admin and type:

```
mamba init powershell
```

- To create envirenment using mamba:

```
mamba create -n nameofmyenv <list of packages>
```

- To activate the environement:

```
mamba activate nameofmyenv
```

Installing pytorch(requirement-python 3.10,3.11,3.12) to use cuda

- `conda create --prefix E:/PYTHON_ENVS/pytorch python=3.11`
- **`conda activate E:/PYTHON_ENVS/pytorch`**
- **`cd E:/nltk`**
- `mamba install pytorch==2.5.1 torchvision==0.20.1 torchaudio==2.5.1 pytorch-cuda=12.4 -c pytorch -c nvidia`

To check cuda

```
import torch
```

```
print("Number of GPU: ", torch.cuda.device_count())
```

```
print("GPU Name: ", torch.cuda.get_device_name())
```

```
device = torch.device('cuda' if torch.cuda.is_available() else 'cpu')
```

```
print('Using device:', device)
```

To see conda env list and remove env

- conda env list
- to remove just delete that folder

Installing Streamlit

- use pip or conda or mamba to install streamlit

```
pip install streamlit
```

- after it has been install check with:

```
streamlit hello
```

```
(env) PS D:\my research\Projects\12_Streamlit_Datascience_Apps> streamlit hello

👋 Welcome to Streamlit!

If you'd like to receive helpful onboarding emails, news, offers, promotions,
and the occasional swag, please enter your email address below. Otherwise,
leave this field blank.

Email:
```

Simple Stock Price webapp

- Make a file python file with the following code:

code in file stock_price.py

- Make app.py

streamlit run app.py

simple stock price app

shown are the stock closing price an volume of Google!

Enter Stock Ticker

NVDA

Start Date

2010/05/31

End Date

2020/05/31

