# Create a working folder

Filename: Cell Voltage (will do the same for hydrogen production).

# Create a virtual environment.

(powershell terminal of VSCode) >> python -m venv .venv

## Activate the venv

>> .venv\Scripts\Activate

# Create a requirements.txt file

## Add the important packages

* numpy
* pandas
* scikit-learn
* matplotlib
* seaborn
* jupyter
* etc

## Run the following command after every package addition

>>pip install -r requirements.txt

## Use the following command to check if dependencies are installed

>>pip list

# Now add folder to GIT local repository

>>git init

## Create a .gitignore file

### Add files to ignore

* .venv/
* \_\_pycache\_\_/
* .ipynb\_checkpoints/

## Add files to be tracked

>>git add .

## Save changes to the local git repository

>> git commit “message”

# Create an online Github repository

* Check README.md
* Check .gitignore

## Get repository URL (to Clone)

* <>Code => HTTPS (copy url)

## Link the repositories

>>git remote add origin HTTPS

## Check which Github repo is connected

>>git remote -v

# Version Control

## Add files to track

>> git add .

## Check files tracked

>> git status

## Commit changes on local repository (Git)

>> git commit -m “Message”

## Commit changes on remote repository (Github)

>> git push -u origin master (or main)

# Setup project structure

## Add these files

### App.py

## Add these folders

### Data

### Notebooks

### SRC