



Virtual Environment

Set up and manage Python environments with these commands:

- **Navigate to Folder**
`cd 'folder_name'`
Change to the directory where you want to create your virtual environment.
- **Create Virtual Environment**
`python -m venv myenv`
Replace myenv with your preferred name for the virtual environment.
- **Activate Virtual Environment**
`myenv/Scripts/activate`
Activates the virtual environment.
- **Install a Package**
`pip install package_name`
Installs a specified package within the virtual environment.
- **Uninstall a Package**
`pip uninstall package_name`
Removes a specified package.
- **Check Package Version**
`package_name --version`
Shows the current version of an installed package.
- **Deactivate Virtual Environment**
`deactivate`
Exits the virtual environment.
- **Remove Virtual Environment**
`rm -r myenv`
Deletes the virtual environment folder.
- **List Installed Packages**
`pip list`
Displays all installed packages in the environment.
- **Save Requirements to File**
`pip freeze > requirements.txt`
Exports a list of installed packages to requirements.txt.



Git and GitHub

Manage repositories with Git and GitHub commands:

- **Initialize Git Repository**
`git init`
Sets up a new Git repository in the current folder.
- **Add All Project Files**
`git add .`
Stages all files in the folder, preparing them for commit.
- **Commit Changes**
`git commit -m "Initial commit"`
Saves changes with a message. Replace "Initial commit" with your specific message.
- **Check Status of Repository**
`git status`
Shows the current status of your repository, including untracked, modified, or staged files.
- **Rename Branch to Main**
`git branch -M main`
- **Link to GitHub Repository**
`git remote add origin https://github.com/username/repository.git`
Replace GitHub repository URL
- **Push Repo to GitHub**
`git push -u origin main`
- **To Remove a Specific File**
`git rm --cached "model.pkl"`
Removes model.pkl from staging without deleting it from the disk.

or push an existing repository from the command line

```
git remote add origin https://github.com/username/repository.git
git branch -M main
git push -u origin main
```