

GitHub basic tutorial

I have Github account and I want to use it to work on a project of statistics practice with Python, dataset in csv. Prepare a basic tutorial for me as a beginner to learn using GitHub especially, add and folders, run .ipynb files, synch between local and remote repo.

Rewrite your reply and skip step 1 and other steps in bullet and sub bullet. Include how to run Git cl and installing Git step. And add what is required to run jupyter notebook. Explain what push and pull do.

Basic tutorial:

1. Install Git and Jupyter Notebook:

Before you start using GitHub, you'll need to install Git and Jupyter Notebook on your local machine. You can download Git from <https://git-scm.com/downloads> and Jupyter Notebook from <https://jupyter.org/install>.

Jupyter Notebook

Install the classic Jupyter Notebook with:

`pip install notebook`

To run the notebook:

`jupyter notebook`

2. Create a new repository:

Create a new repository on GitHub by clicking the "New" button on your GitHub homepage and fill in the necessary information for your new repository, including the repository name, description, and whether it should be public or private.

Clone the repository to your local machine:

In order to work on your project, you'll need to clone the repository to your local machine. Open your terminal or command prompt and navigate to the directory where you want to store your project. Then, use the following command to clone the repository:

```
git clone https://github.com/your-username/your-repository-name.git
```

Replace "your-username" and "your-repository-name" with your actual GitHub username and repository name.

Add files and folders to your local repository:

You can add files and folders to your local repository by simply placing them in the directory where you cloned the repository. You can also use the following command to add files and folders:

```
git add <file-name>
```

Replace "<file-name>" with the name of the file or folder you want to add. You can also use the following command to add all new or modified files and folders:

```
git add .
```

Commit changes to your local repository:

Once you've added files and folders to your local repository, you'll need to commit the changes. Use the following command to commit changes:

```
git commit -m "Your commit message"
```

Replace "Your commit message" with a brief message that describes the changes you made.

Push changes to your remote repository:

After you've committed changes to your local repository, you'll need to push the changes to your remote repository on GitHub. Use the following command to push changes:

```
git push origin main
```

Replace "main" with the name of the branch you want to push changes to. This is usually "main" or "master". Pushing changes sends your local changes to your remote repository.

Run .ipynb files:

To run .ipynb files, you need to have Jupyter Notebook installed on your local machine. Once you have Jupyter Notebook installed, navigate to the directory where the .ipynb file is located and use the following command to run the file:

jupyter notebook <file-name>.ipynb

Replace "<file-name>" with the name of the .ipynb file you want to run.

Sync between local and remote repositories:

To keep your local repository in sync with your remote repository on GitHub, you'll need to pull changes from GitHub to your local machine or push changes from your local machine to GitHub. Use the following command to pull changes:

git pull origin main

Use the following command to push changes:

git push origin main

Pulling changes retrieves any changes that have been made to the remote repository and applies them to your local repository. Pushing changes sends any local changes to the remote repository. That's it! With these steps, you now know the basics of using Git and GitHub to work on your statistics project.