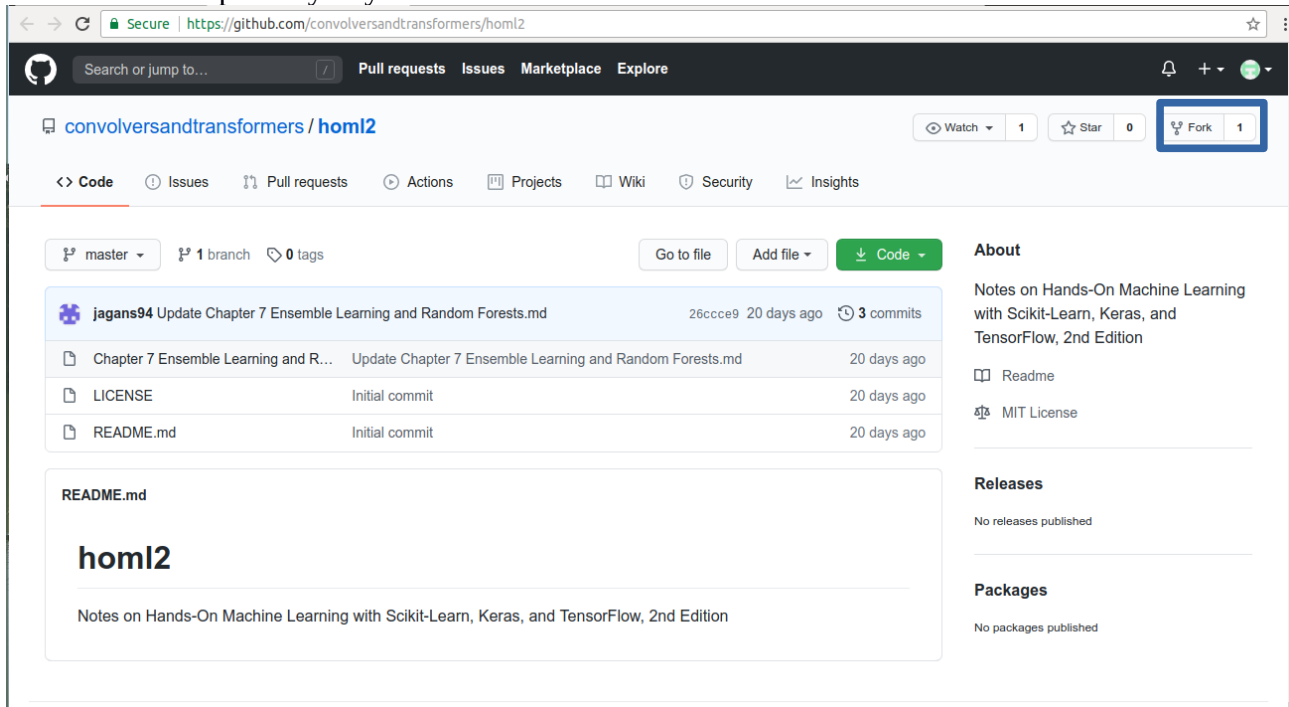# Creating a PR - Short Guide
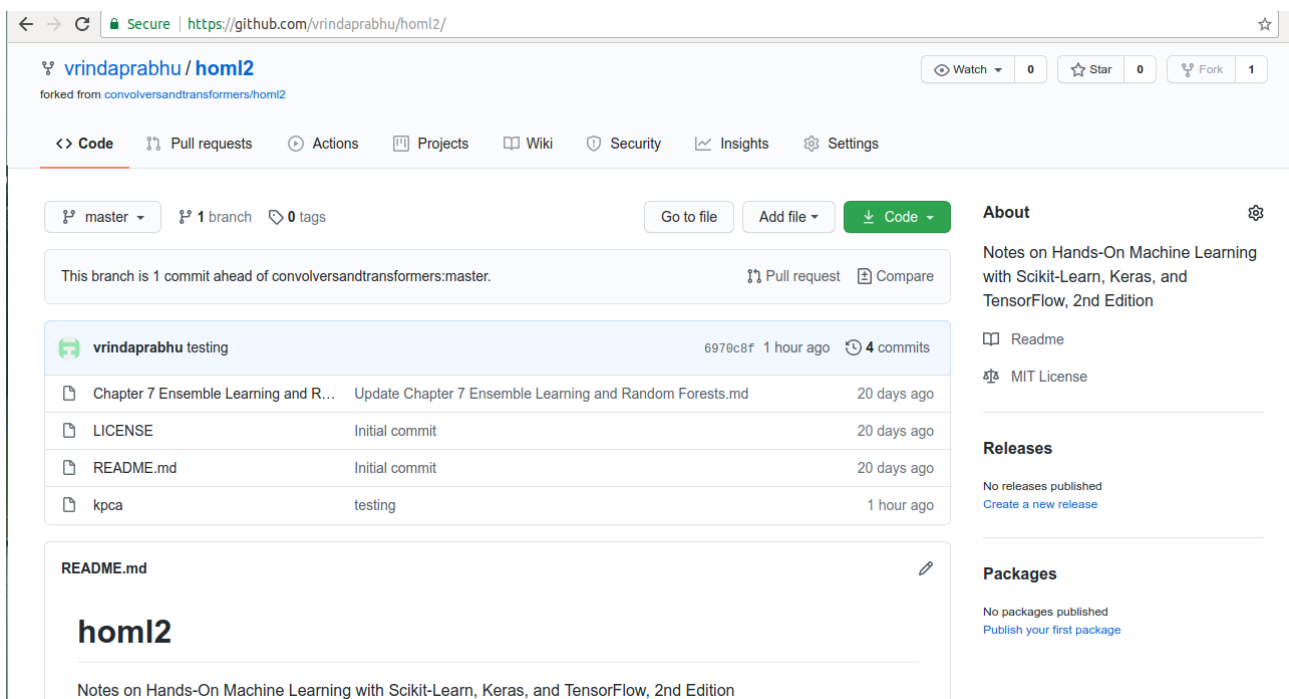
This document lists out the steps required to contribute notes and/or even some examples *(code snippets, scripts, gists etc,.)* to **homl2** repository.

Step-1

Fork the main repository to your Github account.

The repo will be now available in your namespace.

Step-2

Now, git clone the repository locally for development.
Example: *git clone https://github.com/vrindaprabhu/homl2.git*

Step-3

Now, go into the cloned folder and create a branch for development. *Perhaps, this is just a best practise method so that your local master and the main master are same.*
Example: *git checkout -b vp_notes*

Step-4

Create a new remote for the upstream repo. This can be done with the below command. The "upstream repo" refers to the original repo that was initially forked.
Example: *git remote add upstream https://github.com/convolversandtransformers/homl2*

Step-5

Add the files/folders.
Example: *git add Chapter8_Dimensionality_Reduction.md*

Step-6

Commit with a good message.
Example: *git commit -m "Adding notes for Chapter 8"*

Step-7

Finally, push to reflect it remotely.
Example: *git push -u origin vp_notes*

Since, I am using a https login, I get prompted to enter my credentials. Also, push status is also displayed.

```
vrinda@divyasthra:~/homl2$ git push -u origin vp_notes
Username for 'https://github.com': vrindaprabhu
Password for 'https://vrindaprabhu@github.com':
Counting objects: 5, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 3.90 KiB | 0 bytes/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'vp_notes' on GitHub by visiting:
remote:      https://github.com/vrindaprabhu/homl2/pull/new/vp_notes
remote:
To https://github.com/vrindaprabhu/homl2.git
 * [new branch]      vp_notes -> vp_notes
Branch vp_notes set up to track remote branch vp_notes from origin.
```

Step-8

In the forked repo, there will be 2 branches now. Also, in the created branch, the new file will be reflected.

This will also be notified in the main repo.

Use the GUI to happily compare and create a pull request!

And we are done!

TL; DR

In summary, if you want to contribute, the simplest way is to:

1.Fork the main project

2.Clone it to your local system

3.Make a new branch

4.Link the upstream to the original project which was cloned

*5.*Make your changes *(add/update files/folders)*

6.Commit the changes

7.Push it back to your repo

8.Click the **Compare & pull request** button

9.Click **Create pull request** to open a new pull request

Repeat steps 5 and 6 to add more commits to your pull request.

Reference Link

https://docs.github.com/en/github/collaborating-with-issues-and-pull-requests/creating-a-pull-request