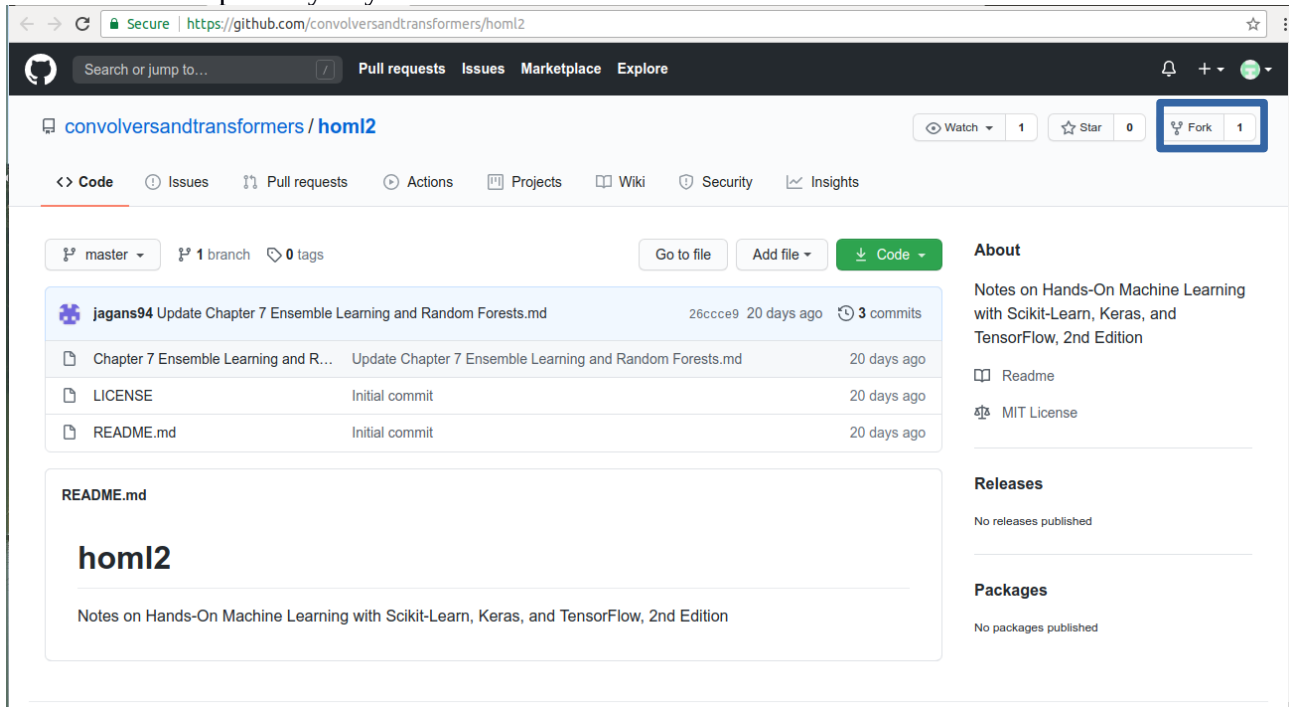


## Creating a PR - Short Guide

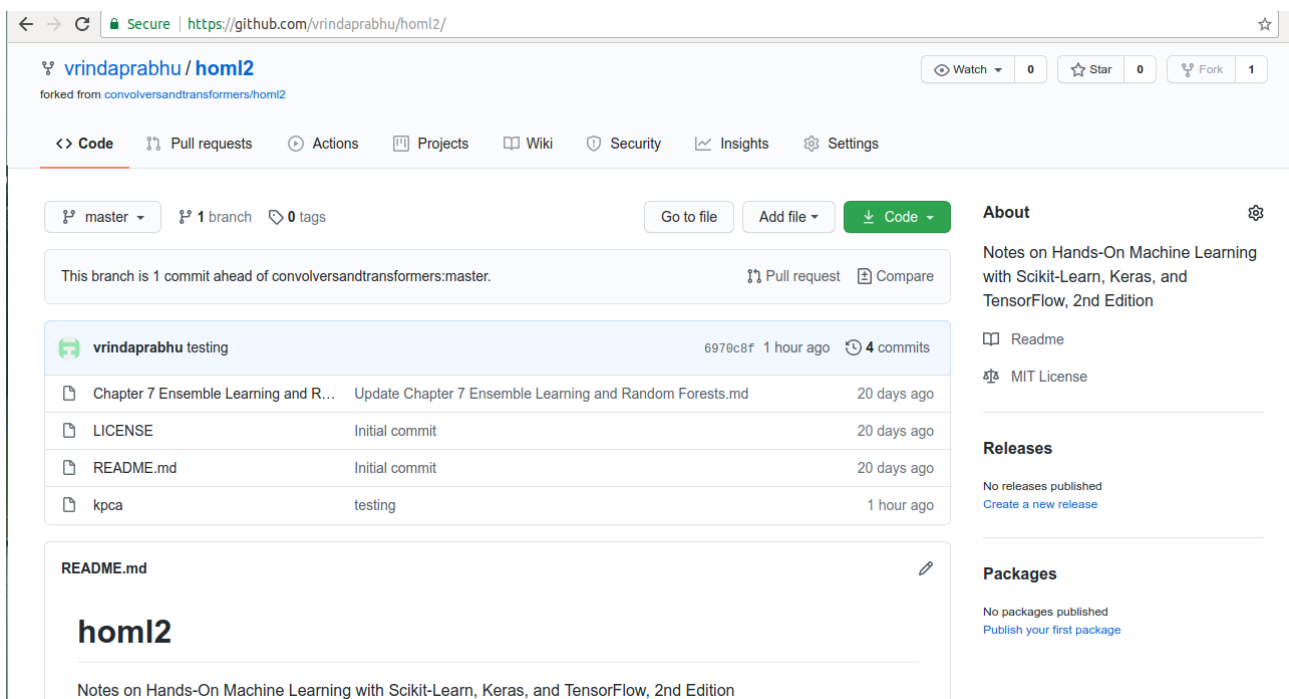
This document lists out the steps required to contribute notes and/or even some examples (*code snippets, scripts, gists etc.,*) to **homl2** repository.

### 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.

The screenshot shows a GitHub repository page for 'vrindaprabhu / homi2', which is a fork of 'convolversandtransformers/homi2'. The repository has 0 stars and 1 fork. The main navigation bar includes links for Code, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. A yellow banner at the top indicates that 'vp\_notes' had recent pushes 3 minutes ago, with a 'Compare & pull request' button. Below this, a dropdown menu shows 'vp\_notes' as the selected branch, with '2 branches' and '0 tags' listed. A status bar indicates 'This branch is 2 commits ahead of convolversandtransformers:master.' and provides links for 'Pull request' and 'Compare'. A commit history table shows the following entries:

Commit	Author	Time
98be190	vrindaprabhu	8 minutes ago
5 commits		

The commit details table is as follows:

File	Commit	Time
Chapter 7 Ensemble Learning and R...	Update Chapter 7 Ensemble Learning and Random Forests.md	20 days ago
Chapter 8%3a Dimensionality Reduc...	Adding notes for Chapter 8	8 minutes ago
LICENSE	Initial commit	20 days ago
README.md	Initial commit	20 days ago
kpca	testing	2 hours ago

Below the commit history, there is a section for 'README.md' with an edit icon. On the right side, the 'About' section describes the repository as 'Notes on Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow, 2nd Edition'. It also includes links for 'Readme', 'MIT License', 'Releases' (with a link to 'Create a new release'), and 'Packages' (with a link to 'Publish your first package').

This will also be notified in the main repo.

The screenshot shows the main repository page for 'convolversandtransformers / homi2'. It has 1 watch, 0 stars, and 1 fork. The navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, and Insights. A yellow banner at the top indicates that 'vrindaprabhu:vp\_notes' had recent pushes 3 minutes ago, with a 'Compare & pull request' button. Below this, a dropdown menu shows 'master' as the selected branch, with '1 branch' and '0 tags' listed. A status bar indicates 'This branch is 1 commit ahead of convolversandtransformers:master.' and provides links for 'Pull request' and 'Compare'. A commit history table shows the following entries:

Commit	Author	Time
98be190	vrindaprabhu	8 minutes ago
5 commits		

The commit details table is as follows:

File	Commit	Time
Chapter 7 Ensemble Learning and R...	Update Chapter 7 Ensemble Learning and Random Forests.md	20 days ago
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Use the GUI to happily compare and create a pull request!

### Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

The screenshot shows the 'Create pull request' interface in GitHub. At the top, it displays the 'base repository: convolversandtransformers/homi2' and the 'head repository: vrindaprabhu/homi2'. The 'base' branch is set to 'master' and the 'compare' branch is set to 'vp\_notes'. A green checkmark indicates 'Able to merge. These branches can be automatically merged.' Below this, there is a section for 'Chapter 8 Notes' with a 'Write' tab and a 'Preview' tab. The 'Preview' tab shows the following text:

Adding notes for Chapter-8, PCA and LLE.  
Followed the template in Chapter-7.

Below the preview, there is a section for 'Helpful resources' with a link to 'GitHub Community Guidelines'. At the bottom, there is a checkbox for 'Allow edits by maintainers' and a 'Create pull request' button.

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.