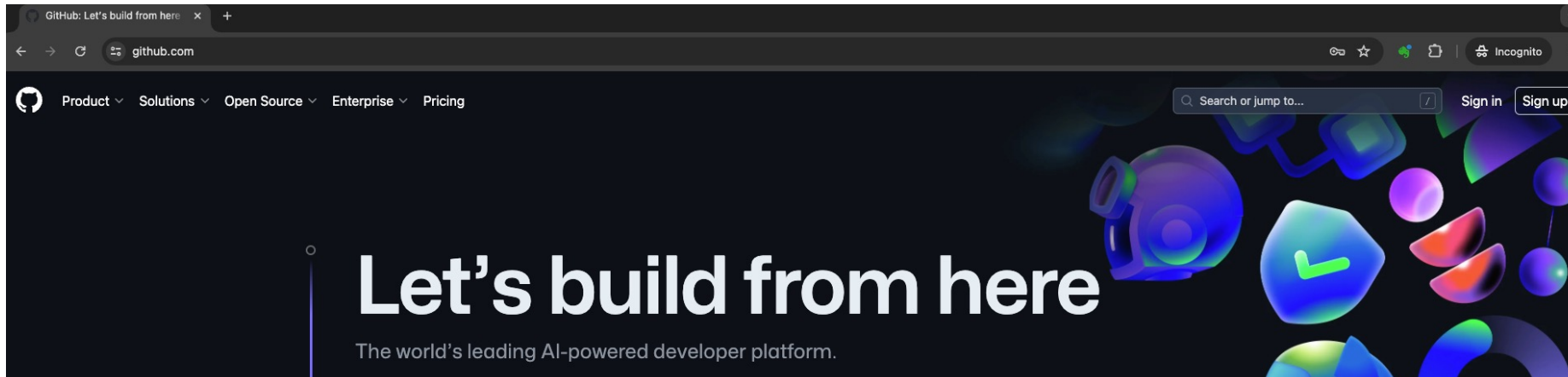


Tutorial on GitHub

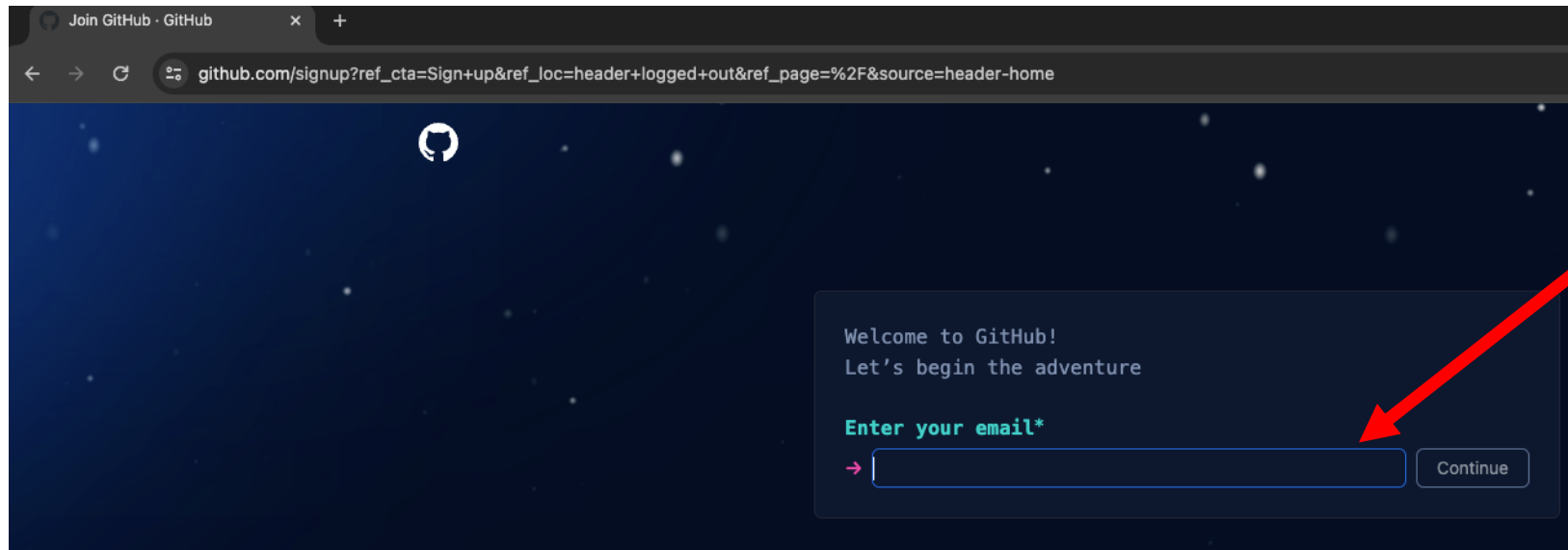
by

RAGE Uday Kiran

Topic 1: Account Creation



No account?
Click on Signup

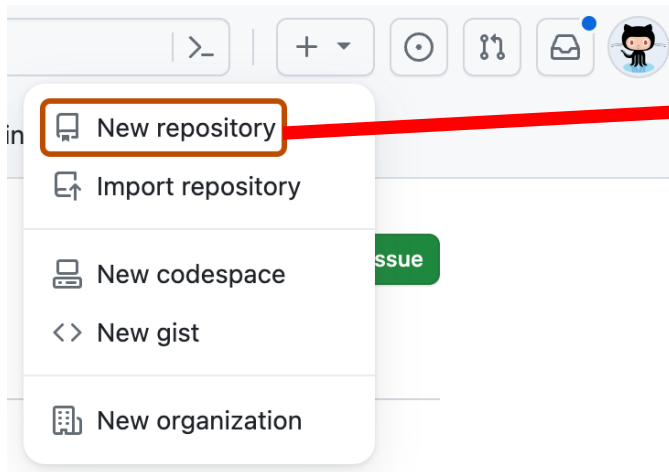


Follow the instructions
and create your account

[Click here for more info](#)

Topic 2: Creation of a Repository

In the upper-right corner of any page, select , then click **New repository**.



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

Required fields are marked with an asterisk (*).

Repository template

No template

Start your repository with a template repository's contents.

Owner *

udayRage

Repository name *

Great repository names are short and memorable. Need inspiration? How about [automatic-chainsaw](#) ?

Description (optional)

☒ Public

Anyone on the internet can see this repository. You choose who can commit.

☐ Private

You choose who can see and commit to this repository.

Initialize this repository with:

☐ Add a README file

This is where you can write a long description for your project. [Learn more about READMEs](#).

Add .gitignore

.gitignore template: None

Choose which files not to track from a list of templates. [Learn more about ignoring files](#).

Choose a license

License: None

A license tells others what they can and can't do with your code. [Learn more about licenses](#).

ⓘ You are creating a public repository in your personal account.

Create repository

1. Enter the repositoryName

2. Write brief description

3. Choose between public/private

public – accessible to everyone
private – accessible to only few

4. Advised to click the check box

5. Ignore for time being

6. Press this button to create the repository

Topic 3: Cloning a Repository

The screenshot shows the GitHub repository page for UdayLab / PAMI. The repository is public and has 108 forks and 216 stars. The 'Fork' button is highlighted with a red arrow and the text '1. Click "fork" button'. The repository has 36 branches and 12 tags. The 'Code' button is highlighted in green. The repository description states: 'PAMI is a Python library containing 100+ algorithms to discover useful patterns in various databases across multiple computing platforms. (Active)'. The repository URL is [udaylab.github.io/PAMI/](https://github.com/udaylab/PAMI/).

continued ...

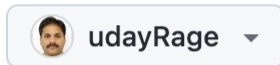
Topic 3: Cloning a Repository

Create a new fork

A *fork* is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks.](#)

Required fields are marked with an asterisk (*).

Owner *



Repository name *

PAMI

✓ PAMI is available.

By default, forks are named the same as their upstream repository. You can customize the name to distinguish it further.

Description (optional)

PAMI is a Python library containing 100+ algorithms to discover useful patterns in various databases across

☒ Copy the `main` branch only

Contribute back to UdayLab/PAMI by adding your own branch. [Learn more.](#)

You are creating a fork in your personal account.

2. you can use the same repository name or use another

3. Press the button


continued ...

Create fork

Topic 3: Cloning a Repository

udayRage / PAMI


[Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)




 **PAMI** Public
forked from [UdayLab/PAMI](#)

[Pin](#) Press this button to maintain the latest version of the repository

[main](#) [1 Branch](#) [0 Tags](#) [Add file](#) [Code](#)

This branch is up to date with [UdayLab/PAMI:main](#) . [Contribute](#) [Sync fork](#)

 **udayRage** Merge pull request [UdayLab#439](#) from vanithakattumuri/main 2aa9f72 · 3 hours ago 3,372 Commits

 .github	Revert "Created using Colaboratory"	4 months ago
 PAMI	UdayLab#2 updated the error in readtheDocs	3 hours ago
 binder	Update requirements.txt	2 months ago

Topic 4: Important Settings

Press this settings button

The screenshot shows the GitHub interface for the repository 'PAMI' by user 'udayRage'. The repository is public and forked from 'UdayLab/PAMI'. The top navigation bar includes links for Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. A red arrow points to the 'Settings' button. Below the repository name, there are buttons for Pin, Watch (0), and a search bar. The main content area shows the current branch 'main' with 1 branch and 0 tags. There is a 'Go to file' search bar, an 'Add file' button, and a 'Code' button. A message indicates the branch is up to date with 'UdayLab/PAMI:main'. Below this, there are buttons for 'Contribute' and 'Sync fork'. The commit history section shows three commits: a revert of 'Created using Colaboratory' 4 months ago, an update to 'readtheDocs' 3 hours ago, and an update to 'requirements.txt' 2 months ago.

udayRage / PAMI

Search: Type to search

Pull requests Actions Projects Wiki Security Insights Settings

PAMI Public

forked from [UdayLab/PAMI](#)

main 1 Branch 0 Tags

Go to file Add file Code

This branch is up to date with [UdayLab/PAMI:main](#)

Contribute Sync fork

udayRage Merge pull request [UdayLab#439](#) from vanithakattumuri/main 2aa9f72 · 3 hours ago 3,372 Commits

.github	Revert "Created using Colaboratory"	4 months ago
PAMI	UdayLab#2 updated the error in readtheDocs	3 hours ago
binder	Update requirements.txt	2 months ago

continued ...

Topic 4: Important Settings

Pull Requests

When merging pull requests, you can allow any combination of merge commits, squashing, or rebasing. At least one option must be enabled. If you have linear history requirement enabled on any protected branch, you must enable squashing or rebasing.

☒ Allow merge commits

Add all commits from the head branch to the base branch with a merge commit.

Default commit message

Presented when merging a pull request with merge.

Default message ▾

☒ Allow squash merging

Combine all commits from the head branch into a single commit in the base branch.

Default commit message

Presented when merging a pull request with squash.

Default message ▾

☒ Allow rebase merging

Add all commits from the head branch onto the base branch individually.

Control how and when users are prompted to update their branches if there are new changes available in the base branch.

☐ Always suggest updating pull request branches

Whenever there are new changes available in the base branch, present an "update branch" option in the pull request.

You can allow setting pull requests to merge automatically once all required reviews and status checks have passed.

☐ Allow auto-merge

Waits for merge requirements to be met and then merges automatically. [Learn more](#)

After pull requests are merged, you can have head branches deleted automatically.

☐ Automatically delete head branches

Deleted branches will still be able to be restored.

Check all of the three
check boxes

continued ...

Topic 4: Important Settings

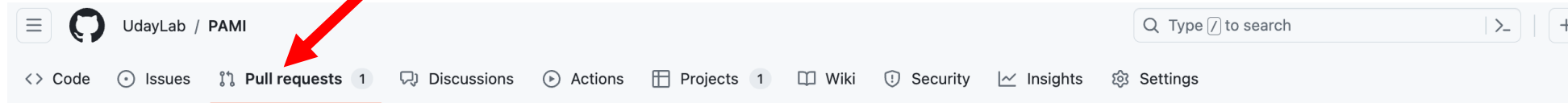
Danger Zone

The image shows a screenshot of the 'Danger Zone' settings page in GitHub. It contains five rows of settings, each with a title, a description, and a button. Red arrows point from external text annotations to the buttons for 'Disable branch protection rules', 'Transfer ownership to another user', and 'Delete this repository'.

Change repository visibility For security reasons, you cannot change the visibility of a fork.	Change visibility	
Disable branch protection rules Disable branch protection rules enforcement and APIs	Disable branch protection rules	Do not disable the branch protection rules for safety reasons
Transfer ownership Transfer this repository to another user or to an organization where you have the ability to create repositories.	Transfer	Transfer ownership to another user
Archive this repository Mark this repository as archived and read-only.	Archive this repository	
Delete this repository Once you delete a repository, there is no going back. Please be certain.	Delete this repository	Delete this repository

Topic 5: Sending the pull request to the main branch

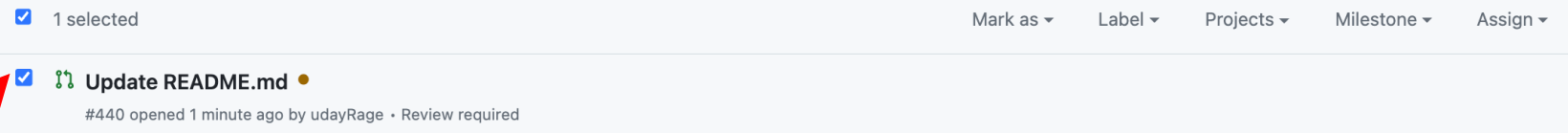
1. Press this button



3. Press this button

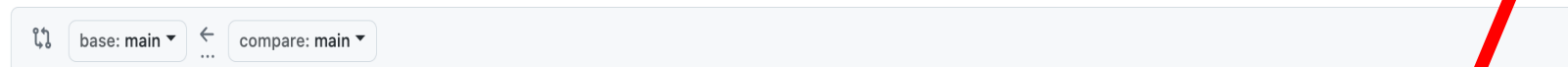
New pull request

2. Tick the appropriate check boxes



Compare changes

Compare changes across branches, commits, tags, and more below. If you need to, you can also [compare across forks](#).



4. Press this button to send pull request

Create pull request

Choose different branches or forks above to discuss and review changes. [Learn about pull requests](#)

Topic 6: Key Terminal Commands

Topic	Command
Create a local copy of a remote repository	<code>git clone ssh://git@github.com/[username]/[repository-name].git</code> <code>git clone ssh://git@github.com/UdayLab/PAMI.git</code>
Check status	<code>git status</code>
Add a file to the staging area	<code>git add [file-name.txt]</code> <code>git add README.md</code>
Add all new and changed files to the staging area	<code>git add -A</code>
Commit changes	<code>git commit -m "[commit message]"</code> <code>git commit -m "added files"</code>
Remove a file	<code>git rm -r [file-name.txt]</code> <code>git rm -r README.md</code>
Update local repository to the newest commit	<code>git pull</code>
Push changes to remote repository (remembered branch)	<code>git push</code>