

GIT

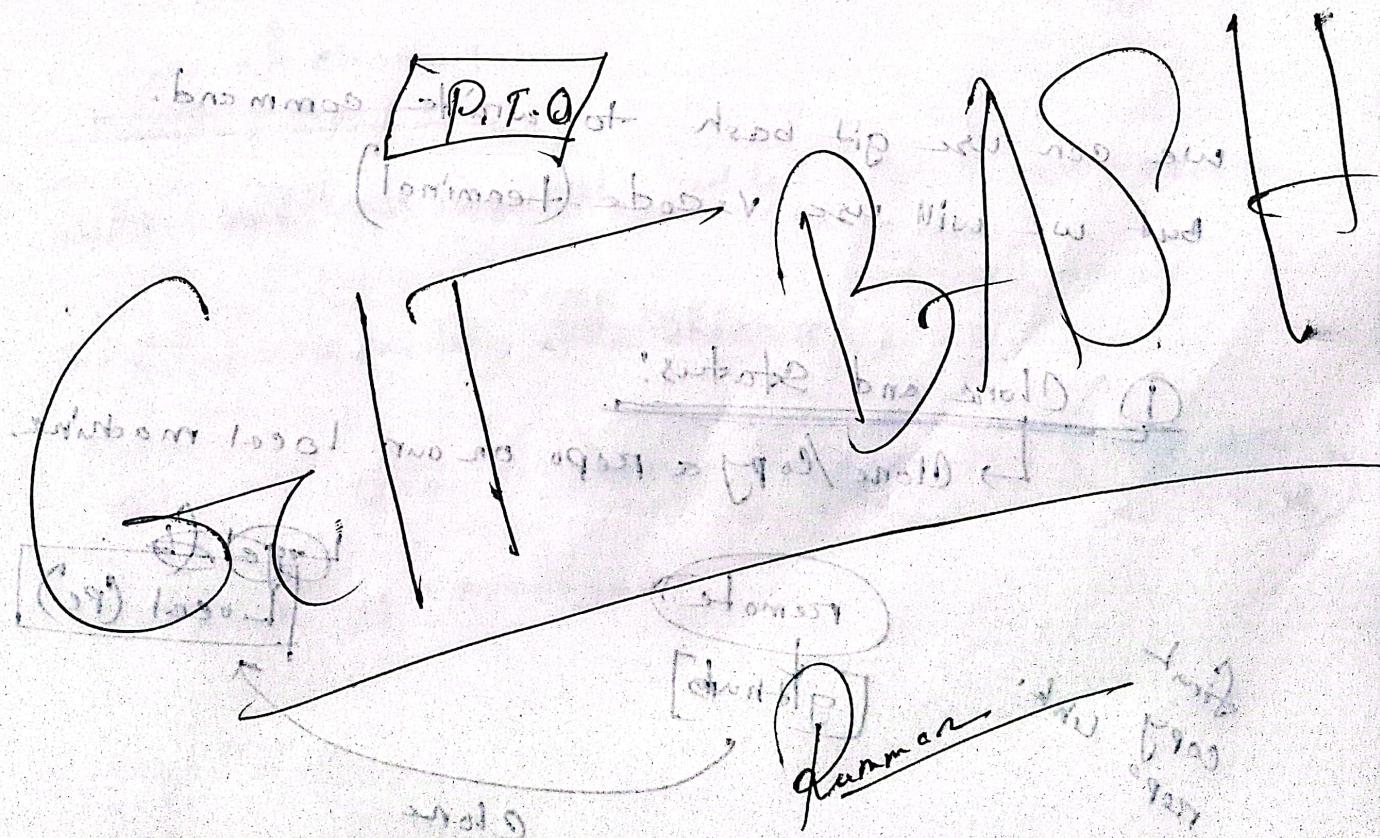
Before starting ML or anything. Let's learn  
GIT for version control.

①

### Setting Up Git

Install Git and Check ( $git -v$ )

"GitHub Desktop" from stores. Today -> GitHub Desktop -> GitHub Desktop



Configure Git:

(1) global level  $\Rightarrow$  1 account  
(2) local level

run this in git bash

git config --global user.name "My Name".  
git config --global user.email "someone@email.com".  
git config --list.

git

main directory

we can use git bash to write command.  
but we will use vs code. (terminal)

① Clone and Status:

Clone / copy a repo on our local machine

first copy rep, link

remote  
[github]

Local (PC)  
clone

git clone <- some link ->

status — display the state of the code.

git status.

If I change anything in  
vs code. we need to  
update it to "git hub".

cd → change directory

folder1 / folder2

cd folder2

steps

(1) Add → (2) Commit

ls → show files under  
the folder

ls -a → also show  
hidden folder.

~~Commit~~ Commit or ~~git~~

update → ~~git~~ untracked, modified, deleted  
→ git status first → untracked, modified, deleted

4 type of change

✓ untracked → new file added. (git doesn't contain them)

✓ modified → existing file changed

✓ staged → file is ready to committed (add and commit)

✓ unmodified → unchanged.

## Add and Commit

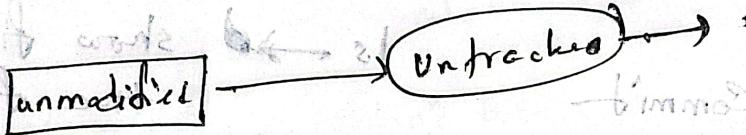
add — adds new or changed files in your working directory to the Git staging area.

`git add <-file name>`

`git add .` → to all files.

commit — if it is the record of change.

`git commit -m "some message"`



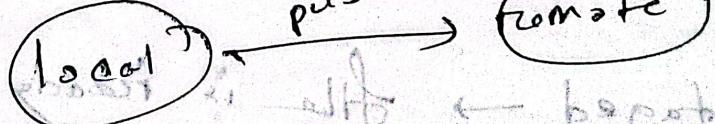
Commit → go to github & choose repository

So:

## Push Command

push → upload local repo content to remote repo.

`git push origin main`



beginning → to bottom

`git push origin main`

just a  
name

অতি কিছু

পূর্ণ পর্যাপ্ত

এটো রেজ লেখ

(রেজে ক্লো রেজিস্ট্রি)

and main a push করি।

K-Shell → নিচের লক্ষণ করুন

or

Create folder in PC → there . rep.

V - একেসেস

Init Command

দ্রুত প্রস্তুতি

init - used to create a new git repo

git init → to add a folder as (repo.)

| git remote add origin <- link ->

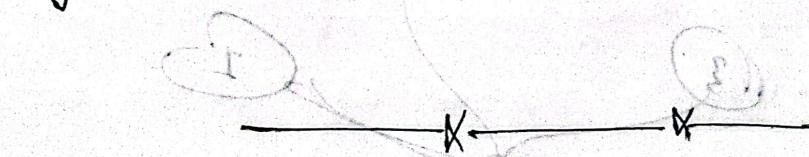
বেসিস

| git remote -v (to verify remote)

| git branch (to check branch)

| git branch -M main (to rename branch)

| git push origin main



local repo

remote

repo

git init → Local pc (locally) → git add . → git commit  
→ Net (remote).

### Remote repo

git hub u repo create

git remote add origin <link>

[Now to check]  
git remote -v

(to verify remote).

git branch

normal tip

git tip uses a alias of brew - tip

(alias) as reblob or bbo of

team1

team3

Project

team1

(alias of team 3)

copy create tip

(don't understand it)

git branch -t

3

1

2

point to  
or copy

(Aug 2020)

git branch .

→ \* master → १८८०

└→ not main

→ to rename

git branch -M main

└→ \* main → २८०

→ then.

git push origin main

यह बार यह origin main तो क्या

we can create short cut .

⇒ git push -u origin main

यह जैसे just git push करेंगे → २८०

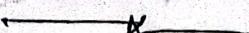
lets add a readme file and push.

to fix change

git commit -m "Fixed readme"

पर तो master में README वाला फाइल हो जाएगा

जो वह commit कर दिया है



पर तो

## Work Flow

Local git:

Github Repo

clone

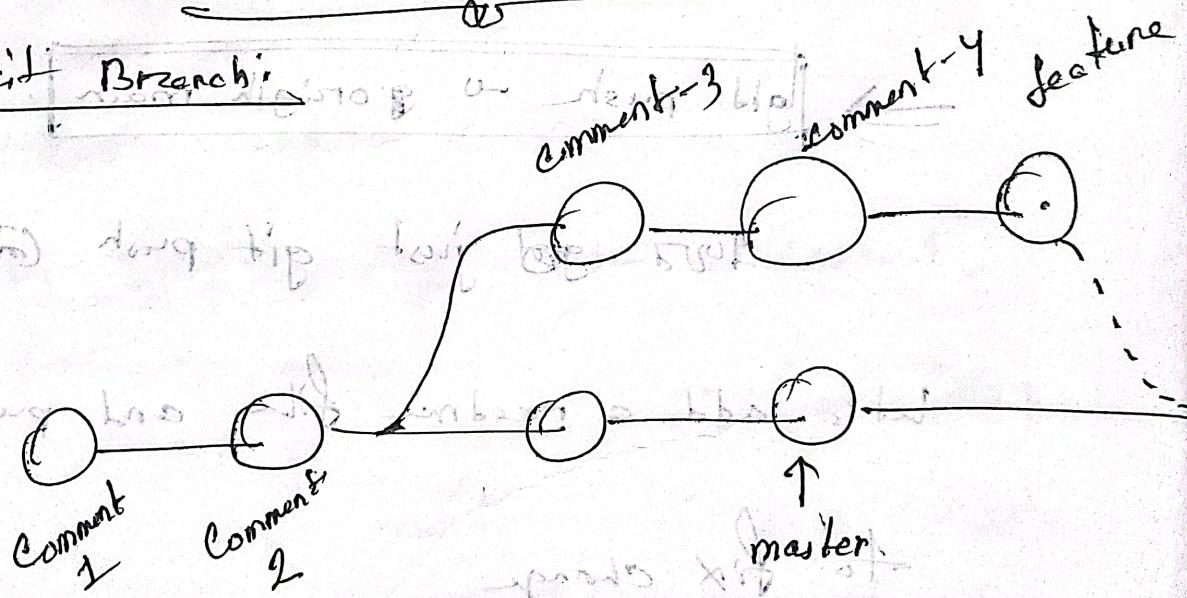
changes

add

commit

push

Git Branch:



পুরাণ বোর্ড এবং হার্মেনিপ পুরাণ

developer → অলগরিদম কাউ

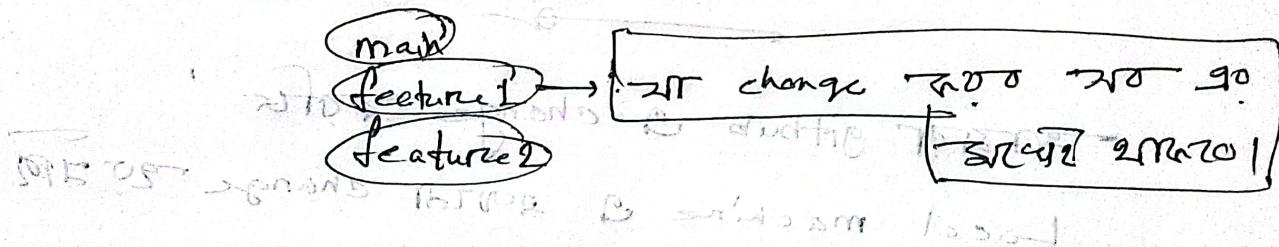
বুরো পুরো গুরুত্বের অস্তি নির্মাণ।

## Branch Commands

- | git branch (to check branch) git
- | git branch -M main (to rename branch) branch 1  
git
- | git checkout <-branch name-> (to navigate)
- | git checkout -b <-new branch name> (to create new branch)
- | git branch -d <-branch name-> (to delete branch)

for eg:

### branch est



git branch change ~~git~~ new feature  
 git branch change ~~git~~ new feature  
 git branch change ~~git~~ new feature  
 git branch change ~~git~~ new feature

to push in github

git push origin feature1

## Merge

(Way 1)

git diff <-branch name->

(to compare commit, branches, files and etc between branches)

git merge <-branch name>

(to merge 2 branch eg.)

Way 2 → pull request (tell others about change)

Create PR

branch

PR PR (request)

main

I then senior (WTR)  
approve suggestion  
CR

click pull request

pull

git pull origin main

Local machine & current change

Remote

local machine

pull command

origin

us

git

github is doing it

Pull Command:

git pull origin main

fetch and download from  
remote repo and update to  
local repos and match

## Resolve Merge Conflicts:

Two code

~~long~~  
example:

same line is

Main:

[this is button]

feature:

[this is drop down.]

same line is 2 ft  
branch is different  
change without  
merge conflict. so  
then can't merge

automatically

we need to  
review code file

OTCML or LMS

code is our friend

`git diff main` → see changes

to merge:

`git merge main`

→ then conflict

LCMRC II

① to resolve

will show option

(we will choose one)

but go to feature 1 → full change so

→ mark go sync

`git merge feature 1`

## Undoing Changes:

Case-1

staged changes:

add

22 (5)

but comm

20 28 925

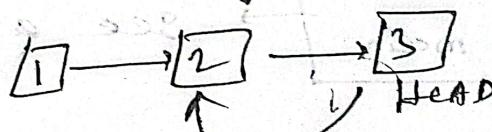
git reset <file name>  
git reset

~~git reset~~

Case-2

Committed changes (for one commit)

git reset HEAD~1



Case-3

Committed change (for many commit)

git reset <commit . hash>

git reset <--hard <commit hash>

vs code 1 o change 2.0

FORK

fork is a rough copy

new repo that shares code and  
visibility setting with the  
original upstream.