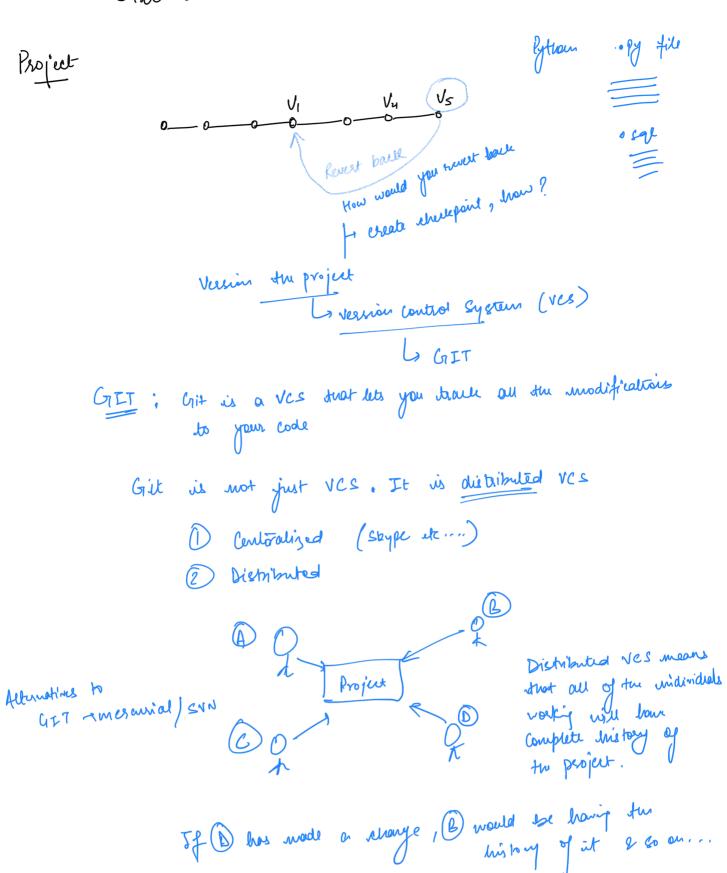
Grit & Grithub



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Of thow many of you have heard of Github & how many of you think that we are talking about this platform Github only?
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GIIT TERMINOLOGIES

Repository: Folder that contains all the project files & the history of our tre servicing made to each file:

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<u>Git</u> is a widely used <u>Version Control System (VCS)</u> that lets you keep track of all the modifications you make to your code. This means that if a new feature is causing any errors, you can easily roll back to a previous version.

But Git isn't just any VCS, it's a Distributed VCS. This means that every collaborator of the project will have a history of the changes made on their local machine. So people can work on different features of the project without having to communicate with the server hosting the remote version of the project. This is super efficient and you can easily merge any changes made to the project with the remote copy.

Since it is written in the C language, speed and performance are ingrained in Git right from its inception. Besides this, Git also provides a lot of buffers before actually saving any changes to the project.

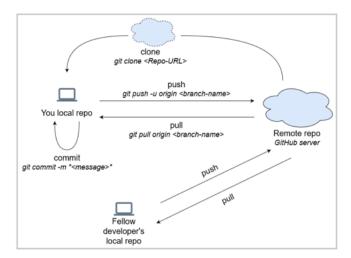
<u>GitHub</u> is a widely used platform for version control that uses Git at its core. It lets you host the remote version of your project from where all the collaborators can have access to it. Not just your own team members, but any member of GitHub can contribute to your code (that is of course if you choose to accept the changes made). We will discuss all of this in detail in this article.

GitHub is like a social platform where you can find a plethora of open-source projects with their codes. All the new and emerging technologies can be found on this platform. You can collaborate on amazing projects and have discussions on your contributions! This is the best open-source platform you'll find and is a data scientist's dream!

You can check out our monthly collection of the best open-source data science projects on GitHub <u>here</u>.

There is surely a lot that you can do on GitHub, so let's get started.

What is a Repository?



Repository or Repo is a folder that contains all the project files and the history of the revisions made to each file. There are two repositories of your project that you will work with throughout the lifetime of your project – Remote repo and Local repo:

- Remote repo contains your project that can be accessed from anywhere and by anyone. Your remote repository lives on the GitHub server and anybody can access them
- Local repo is a copy of the remote repo that resides on your local machine. All the changes you make will be saved in your local repo. Your fellow developers will not be able to see them yet until you push them to the remote repo

Scenarios 1) You start your own project 2) Clone the project and your local system 3) If I have a repo, should you be allowed to push changes m my repo? -> If access request - Yes - But if it is high stake, you can allow someone to create a copy of optional the repository on his account. To rough weak & all & if things are working You can ask to original author FORKING to incorporate the same changes

Work flow

Till Now

- 1) You have made the rehanges to your folders on your local repository
- 2) You need to commit. Some all the changes you made it are a version,
- 3) Push Publish it to the server
- (4) If I have pushed it I you also hour to well on it as a team. You will chance & work on it I if i have to incorporate those whomose, I will Pull from the remote seto.

Fetch command tell yen volution your version is same as that of semote or not.

Collaborative Development - Branching

New branch checkout

Ranking function

Raise a pull request

(to merge it with the manages has to approve, seview 2 then mani code