WELCOME TO MLOPS

Session-1

Git and Github

June 04, 2025

Github telling me my project has a security vulnerability My project which hasn't been touched in three years





**AIC** 

# (-) GENDA

- (hit
- 2 Github
- 3 Serminologies (Project) Push, Pull, Commit
- 4 Bronching
- © Conflict Resolution
- 6 (ontribute to open source projects

## Module Agenda

- 1. Git-HUB
- 2. Build an ML application deploy it online, Streamlit.
- 3. Deploy ML Endpoint API, Flask
- 4. Docker containers, containerization.
- 5. CI/CD 2 Sessions.
- 6. Experiment Tracking MLFLOW
- 7. System Design 1/2 2 Sessions.
- 8. SageMaker How to use/deploy on Sagemaker.
- 9. Introduction to Apache Spark Distributed Computing.

Please Practice.

# MLOPS

Machine learning pipeline.



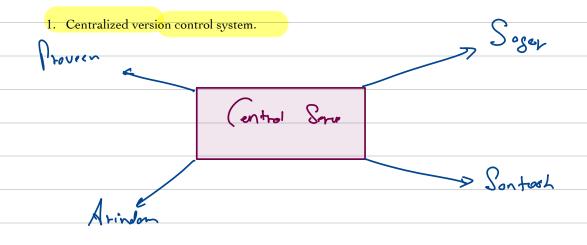
\*MLOps vs DevOps debate\*

Is MLOps actually like DevOps?



GIT → Ohen source Prision control system model bynb modd-ropy. iþynb empty Sove this state Code is working but v. basiz

## Different kinds of version control system.



2. Distributed version control system.

### Pros of Centralized VCS:

- 1. High Security
- 2. Ease of Use; no confusion, as for what's the most recent code/version.
- No Conflicts.
- 4. Real Time update and monitoring

#### Cons:

- 1. Central point of failure.
- 2. Scalability Issues.
- 3. Limited offline capabilities.



Code-10mmit (Amozon)

Emoil -> Commit

Continue (Microsoft)

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Zahool(

Ruten

#### What is Git?

19 users have participated

Α	A nickname for GitHub.	0%
В	A programming language.	0%
С	A remote repository platform.	11%
D	A version control system.	89%

**End Quiz Now** 



#### Which of the following is true about Centralized version control system??



	Base	d on all quizzes from the session	on	
	AU		3	
		<b>№ Rajaraman</b> 2/2 <b>%</b> 190.36	<b>№ kiran kumar</b> 2/2 <b> </b>	
4	Arindam Maji		2/2 🗲 185	5.83
5	Praveen MC		2/2 🗲 185	5.62
6	SD Sagar Deka		2/2 🗲 184	4.73
7	VS Venkata Sai Pramod Kur	mar	2/2 🗲 184	4.33
8	Chirantan Sharma		2/2 🗲 184	4.23
9	SG Sonali Ghosh		2/2 🗲 183	3.20
10	Rajeev Ranjan Kumar Si	ngh	2/2 5 178	8.83

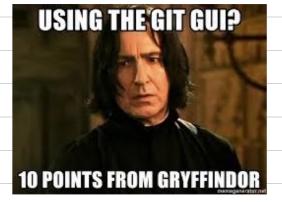
Leaderboard

### Github Terminologies

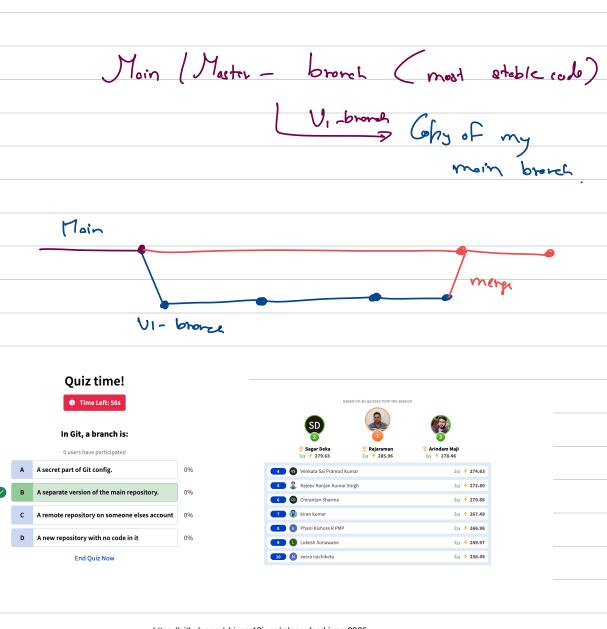
- 1. Repository: Fancy word for folder that contains code
- 2. Local Repository: Folder on my local computer (may or may not be present on the cloud)
- 3. Remote Repository: Our folder of code, uploaded/stored on the cloud.

#### Commands:

- 1. Commit: Saving the current state of the repository
- 2. Pull: Updating our local repository with any possible new changes.
- 3. Clone: Creating a copy of the repository on my local computer, and connecting it with the repo.
- 4. Push: Updating the remote repo with new changes made in local repo.



BRANCHES:





All of the above

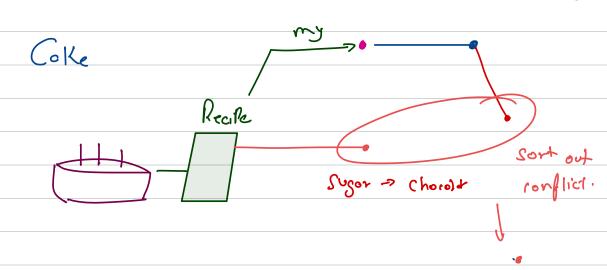


End Quiz Now





Suger -> honey



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