Github Komal Kamtaria

# GitHub Commands

#### 1. Configuration

a. **Set your username:** git config --global user.name "Your Name" Sets the global username for Git commits.

b. **Set your email:** git config --global user.email "your.email@example.com" Sets the global email for Git commits.

# 2. Repository Management

- a. Initialize a new repository: git init Creates a new Git repository.
- b. **Clone an existing repository:** git clone <repository\_url> Copies an existing Git repository to your local machine.

# 3. Working with Changes

- a. **Check the status of your working directory:** git status Shows the status of changes in the working directory.
- b. **Stage changes:** git add <file> Stages a file for the next commit.
- c. **Stage all changes:** git add . Stages all changes in the working directory for the next commit.
- d. **Commit staged changes:** git commit -m "Commit message" Records staged changes to the repository with a message.

# 4. Branching and Merging

- a. **Create a new branch:** git branch <branch\_name> Creates a new branch.
- Switch to a different branch: git checkout <branch\_name> Switches to the specified branch.
- c. Create and switch to a new branch: git checkout -b <br/>branch\_name> Creates a new branch and switches to it.
- d. **Merge a branch into your current branch:** git merge <branch\_name> Combines the specified branch into the current branch.

#### 5. Remote Repositories

- Add a remote repository: git remote add origin <repository\_url> Adds a remote repository.
- b. **Fetch changes from the remote repository:** git fetch origin Downloads changes from the remote repository without merging.

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c. **Push changes to the remote repository:** git push origin <br/>branch\_name> Uploads local branch commits to the remote repository.

d. **Pull changes from the remote repository:** git pull origin <br/>branch\_name> Downloads and merges changes from the remote branch.

# 6. Viewing History

- a. **View commit history:** git log Shows the commit history.
- b. View a specific file's commit history: git log <file> Shows the commit history for a specific file.

### 7. Stashing Changes

- a. **Stash changes:** git stash Temporarily saves changes not ready to be committed.
- b. **Apply stashed changes:** git stash apply Applies stashed changes to the working directory.
- c. **List stashes:** git stash list Shows a list of stashed changes.