**Git and GitHub Basics**

Git and GitHub are essential tools for version control and collaboration in software development. Below are the fundamental commands and their uses:

1. **git clone**
   * Command: git clone <repository URL>
   * Purpose: This command is used to copy an existing reposito
   * ry from a remote source (e.g., GitHub) to a local machine.
2. **git add**
   * Command: git add <file\_name> or git add .
   * Purpose: Adds changes in the working directory to the staging area, preparing them for a commit.
3. **git commit**
   * Command: git commit -m "Commit message"
   * Purpose: Saves changes from the staging area into the repository's history with a descriptive message.
4. **git push**
   * Command: git push origin <branch\_name>
   * Purpose: Uploads local commits to the remote repository.
5. **git pull**
   * Command: git pull origin <branch\_name>
   * Purpose: Fetches and merges changes from the remote repository into the local repository

These commands form the foundation of working with Git and GitHub effectively. Mastering them allows for efficient version control and collaboration in development projects.

**Collaboration:**

The github provide collaborative work which helps to people to work parallel and efficiently with different computers. These are the steps to work collaboratively on the github after opening the github.

**Step 1: Settings**

**Step 2: Collaborators**

**Step 3: Add People**

**Step 4: Enter the <user\_name> of the person’s github id to add.**

**Step 5: Add to repository**

**Repository Link**: <https://github.com/SamStephen007/Data-Science>