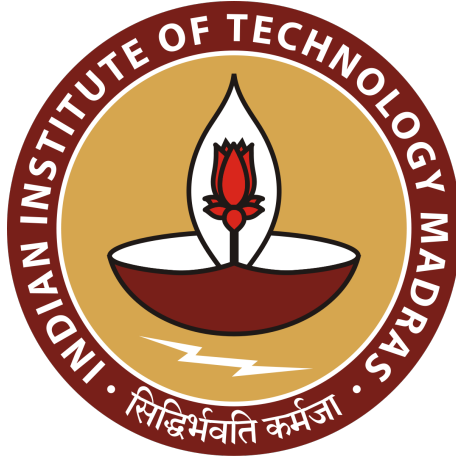# Indian Institute Of Technology Madras

CS5830
Big Data Laboratory
Assignment 3
Git and Version Control

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Procedure

1. **Initialize Git Repository:**We open the terminal or command prompt, navigate to the folder, and run the following command:

   ```
   git init
   ```

   This initializes git.

2. **Add Files to the Repository:** We than add the files in the folder to the staging area of the Git repository. You can do this by running:

   ```
   git add .
   ```

   This command adds all files in the folder to the staging area. We can specifically choose files by using ..

3. **Commit Changes:** Commit the added files to the local repository with a descriptive commit message. This step records the changes you've made in the repository. Run the following command:

   ```
   git commit −m "comment"
   ```

4. **Create a GitHub Repository:** Go to GitHub and create a new repository. Give it a name and optionally add a description. Note down the repository URL.

5. **Link Local Repository to GitHub Repository:** Link our local Git repository to the GitHub repository you just created. Run the following command, replacing `<repository-url>` with the URL of our GitHub repository:

   ```
   git remote add origin <repository−url>
   ```

6. **Push Changes to GitHub:** Finally, push the committed changes from our local repository to the GitHub repository. Run the following command:

   ```
   git push −u origin master
   ```

   This command pushes the changes in the `master` branch of your local repository to the `master` branch of the GitHub repository. If you're working with a different branch, replace `master` with the name of the branch you're working on.

After completing these steps, our folder and its contents will be successfully pushed to your GitHub repository. We can verify this by visiting the repository on GitHub and checking if the files are present.

The link for the github repository is given below
`https://github.com/HrishikeshA15/CS5830_Assignment3/`