



# WELCOME TO OPEN SOURCE CONTRIBUTION WORKSHOP

**IEEE DBIT CS Presents** 



### The Tools of the Trade

Before we start, let's meet the two essential tools:

#### 1. Git

It's a program on your computer that tracks every single change you make. It's the foundation of version control.

#### 2. GitHub

Think of it as a social network for coders.

It's where projects live, where you find code, and where you collaborate with others.



# Today's Mission: Add your name to the contributors list on a repo and send a PR(pull request to the owner of the repo)

Let's get started...



#### We will see all of it in detail now one by one

- 1. [Fork] --> B[Clone]
- 2. B --> C[Branch]
- 3. C --> D[Edit]
- 4. D --> E[Add]
- 5. E --> F[Commit]
- 6. F --> G[Push]
- 7. G --> H[Pull Request]



#### 1. FORKING

#### What is Forking?

- Creates your personal copy of the project on GitHub
- You own this copy experiment freely!
- The original project stays untouched



#### 2.CLONE

- Downloads your fork to your local machine
- Creates a complete copy with full history
- Sets up the connection between local and remote
- Command for cloning a repo in your local desktop:

```
git clone url_of_the_repo
```



#### 3. CREATE A BRANCH

- Safe workspace for your changes
- Best practice in open source
- Keeps your changes organized and isolated
- Command:

git checkout -b add-your-name



#### 4. MAKE YOUR EDIT

- Open Contributors.md in your text editor
- Add your name to the list
- Follow the existing format

#### **Pro Tip**

Always read the project's **CONTRIBUTING.md** first!



#### 5. CHECK STATUS

- Most imp command
- Red text: Files you've modified
- Green text: Files ready to be committed
- This is your "situation report"
- Command:

git status



#### 6. STAGE YOUR CHANGES

- Puts your changes in the "staging area"
- Think: "putting items in your shopping cart"
- Run git status again to see the difference!
- Command:

```
git add contribution.md
```



#### 7. COMMIT

- It should be Clear and descriptive
- Explains what you changed
- Future you (and others) will thank you
- Command:

```
git commit -m "Add [Your Name] to contributors list"
```



#### 8. PUSH

- Uploads your new branch to your fork on GitHub
- Makes your changes visible online
- Prepares for the final step...

#### Command:

git push origin add-your-branch-name



# Step 9: Create a Pull Request The Magic Moment

- Go to your fork on GitHub
- Click the green "Compare & pull request" button
- Fill out the title and description
- Click "Create pull request"



## Congratulations! 💝

You've just made your first open source contribution!

**Any Questions?** 



Thank You! 🙏





# Some links where you can find projects to contribute

Form a team with your friends and start

- https://github.com/MunGell/awesome-for-beginners
- https://goodfirstissue.dev/language
- https://summerofcode.withgoogle.com/programs/2025/organizations
- to read: <a href="https://www.reddit.com/answers/386a070a-6f8f-48c1-adc2-71e68286353a/?q=Easy open source projects for beginners&source=PDP">https://www.reddit.com/answers/386a070a-6f8f-48c1-adc2-71e68286353a/?q=Easy open source projects for beginners&source=PDP</a>



## We Appreciate Your Feedback!

