#### **GIT COMMANDS**

# 1. Git Configuration

Set up your Git identity and check your config:

- Set username: git config --global user.name "Your Name"
- Set email: git config --global user.email "your@email.com"
- Show current settings: git config --list

### 2. Working with Repositories

Start or copy a repository:

- Start a new repo: git init
- Clone existing repo: git clone <URL>

#### 3. Managing Files

Track and commit file changes:

- Stage one file: git add <file>
- Stage all changes: git add .
- View status: git status
- Commit changes: git commit -m "message"
- Remove a file: git rm <file>

#### 4. Branching

Create, switch, and merge branches:

- List all branches: git branch
- Create new branch: git branch <name>
- Switch branch: git checkout <name>
- Create + switch: git checkout -b <name>
- Merge another branch: git merge <branch>
- Delete a branch: git branch -d <name>

## **5. Remote Repositories**

Work with remote GitHub/GitLab repos:

• View remotes: git remote -v

- Add remote: git remote add origin <URL>
- Push branch and set upstream: git push -u origin <br/> <br/>branch>
- Push changes: git push
- Pull updates: git pull

### 6. Logs & Diffs

Inspect commits and code changes:

- Show history: git log
- Short log: git log --oneline
- Show unstaged changes: git diff
- Show staged changes: git diff --staged

## 7. Stashing

Temporarily save work:

- Save changes: git stash
- Apply last stash: git stash apply
- See saved stashes: git stash list
- Remove a stash: git stash drop

## 8. Undoing Changes

Go back if things go wrong:

- Discard changes: git checkout -- <file>
- Unstage file: git reset <file>
- Reset everything to last commit: git reset --hard

#### 9. Advanced Tools

#### **Submodules**

Use other Git repos inside your repo:

- Add: git submodule add <URL>
- Update: git submodule update --init --recursive