# ■ Git Command Reference Sheet (2025 Edition)

# 1. Git Configuration

- git config --global user.name "Your Name" Set global username
- git config --global user.email "your@email.com" Set global email
- git config --global core.editor "code --wait" Set VS Code as default editor
- git config --list View all configuration settings
- git config --global --edit Edit global config file manually

#### 2. Repository Setup

- git init Initialize a new local Git repository
- git clone Clone a remote repository
- git remote add origin Link local repo to remote
- git remote -v View remote URLs

#### 3. File Tracking & Staging

- git status Check repo status
- git add Add file to staging area
- git add . Add all files
- git reset Unstage a file
- git diff Show unstaged changes
- git diff --staged Show staged changes

# 4. Committing Changes

- git commit -m "message" Commit staged files
- git commit -am "message" Add & commit modified files
- git commit --amend -m "new message" Edit last commit message
- git log View commit history
- git log --oneline Compact log view

# 5. Undoing Changes

- git restore Discard changes in working directory
- git restore --staged Unstage file
- git reset --hard Reset to specific commit

• git revert - Undo a commit safely

# 6. Branching & Merging

- git branch List branches
- git branch Create new branch
- git switch Switch branch
- git merge Merge into current branch
- git branch -d Delete branch

#### 7. Remote Repositories

- git push origin main Push commits to remote
- git pull origin main Pull from remote
- git fetch Download remote changes
- git push --force Force push (use carefully)

#### 8. Stashing

- git stash Temporarily save uncommitted work
- git stash list List all stashes
- git stash pop Apply & remove last stash

### 9. Tags

- git tag List tags
- git tag v1.0 Create lightweight tag
- git tag -a v1.0 -m "Release v1.0" Annotated tag
- git push origin v1.0 Push tag to remote

#### 10. Advanced Commands

- git cherry-pick Apply a specific commit
- git rebase -i HEAD~3 Interactive rebase
- git reflog View all HEAD changes
- git bisect start Find buggy commit