■ Git CLI Cheat Sheet — With Deep Explanations & Differences

1. Configuration

Command	Description
git configglobal user.name "Hemant Singh"	Set username globally
git configglobal user.email "you@example.com"	Set email globally
git configlist	Show all configurations

2. Repository Setup

Command	Description
git init	Initialize a new repo
git clone <url></url>	Clone existing repo
git clone -b branch> <url></url>	Clone specific branch

3. File Operations

Command	Description
git status	Check current status
git add .	Stage all files
git restore <file></file>	Undo changes in working directory

4. Committing

Command	Description
git commit -m "message"	Commit staged files
git commitamend	Amend last commit
git logoneline	Compact commit history

5. Branching

Command	Description
git branch	List branches
git checkout -b feature/login	Create & switch branch
git branch -d feature/login	Delete branch safely

6. Merge vs Rebase

Command	Description
git merge <branch></branch>	Combine branches (preserves history)
git rebase branch>	Move commits on top of another branch (rewrites history)
Difference:	Merge keeps history, Rebase makes it linear

7. Remote Operations

Command	Description
git remote -v	List remotes
git fetch	Download remote updates without merging
git pullrebase	Fetch + rebase instead of merge

8. Undoing & Resetting

Command	Description
git resetsoft <commit></commit>	Undo commit but keep changes staged
git resethard <commit></commit>	Undo everything
git revert <commit></commit>	Safely undo a commit in shared repos

9. Stashing

Command	Description
git stash	Temporarily save uncommitted changes
git stash apply	Apply stashed changes
git stash pop	Apply and remove from stash list

10. Real Workflow Example

Command	Description
git clone <repo></repo>	Clone project
git checkout -b feature/api-upgrade	Work on a feature
git rebase origin/main	Rebase on latest main before push