GIT CHEAT SHEET (Data Scientist Friendly)

Core Daily Commands

git status – check current state

git pull – get latest changes

git add . – stage all changes

git commit -m "message" – save snapshot

git push – send commits to remote

Branches

git branch – list branches

git checkout -b my-branch – create & switch branch

git switch main – go back to main

git branch -d my-branch – delete branch

History

git log --oneline – show history (quit with q)

git log --oneline --graph --all – visualize branches

git log filename.py – history of one file

Go Back in Time

git checkout <commit-id> – view old version

git checkout -b new-branch <commit-id> – continue from old version

Undo Mistakes

git reset --soft HEAD~1 – undo last commit, keep changes

git reset --hard HEAD~1 – undo and delete changes (danger)

git revert <commit-id> – safely undo pushed commit

Staging

git add file.py – stage file

git add -p – stage interactively

git restore --staged file.py – unstage file

Stash

git stash – save work temporarily

git stash list – see stashes

git stash pop – restore stash

Merging

git merge other-branch – merge into current branch

Emergency

q – quit git log pager

git reflog – recover lost commits