

User Context: - Local project folder: C:\LangChain_Course - Virtual environment: (langchain-course) - Goal: Upload all LangChain practice projects to a single GitHub repository - GitHub profile: <https://github.com/Tejashwini2002>

1. Git Status & Add Files

```
nothing added to commit but untracked files present (use "git add" to track)
git add .
```

2. Warning about LF → CRLF: harmless, just line ending differences between Linux/macOS (LF) and Windows (CRLF).

3. Check Remote

```
git remote -v
```

4. Output: empty → no remote repository linked yet.

5. GitHub Repo Setup

6. Go to <https://github.com/new>
7. Repository name: LangChain_Course
8. Keep empty (no README, .gitignore, or license)
9. Create repository

10. Link Local Repo to GitHub

```
cd C:\LangChain_Course
git init
git add .
git commit -m "Initial commit with LangChain practice projects"
git branch -M main
git remote add origin https://github.com/Tejashwini2002/LangChain_Course.git
git push -u origin main
```

11. Replace `Tejashwini2002` with your GitHub username.
12. `cd` → go to project folder
13. `git init` → initialize Git repository
14. `git add .` → stage all files
15. `git commit -m` → commit staged files
16. `git branch -M main` → rename default branch to main
17. `git remote add origin ...` → link local repo to GitHub
18. `git push -u origin main` → upload files to GitHub

19. Push Blocked due to Secret

20. GitHub push protection blocked push due to `.env` containing OpenAI API key.

21. Error:

```
remote: - Push cannot contain secrets
remote:   OpenAI API Key - .env:1
```

22. Fixing the Secret Issue

23. Update `.gitignore`:

```
# Environment / secret files
.env
```

24. Remove `.env` from Git tracking:

```
git rm --cached .env
```

25. Amend last commit to remove `.env`:

```
git commit --amend --no-edit
```

26. Push again:

```
git push -u origin main
```

27. Important: `.gitignore` only prevents new files from being tracked; removing `.env` from Git is necessary.

28. Explanation of `git commit --amend --no-edit`

- 29. Rewrites the most recent commit with currently staged files
- 30. Keeps the same commit message
- 31. Useful for removing unwanted files (like secrets) from the last commit

32. Adding New Projects Later

- 33. Create a new subfolder inside `C:\LangChain_Course` (e.g., `04_RAG_App`)
- 34. Add your files
- 35. Run:

```
git add .  
git commit -m "Added RAG App project"  
git push
```

- 36. All projects remain in one GitHub repository.

37. Recommended Folder Structure

```
C:\LangChain_Course  
├─ 01_Basics/  
├─ 02_LLM_Chain/  
├─ 03_Agent_Project/  
├─ 04_RAG_App/ (future projects)  
└─ README.md
```

- 38. Each project in its own folder
- 39. Keep `.env` local only

Summary: - Initialize Git, add files, commit - Link to GitHub remote - Push blocked due to secret in `.env` - Add `.env` to `.gitignore` and remove from commit - Amend commit to remove secret - Push successfully - Add future projects in separate subfolders and push incrementally