

Create a new directory called ml-project

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets> mkdir  
"ml-project"
```

Directory: S:\Practice Python yourself\AI projects\Resources_Notes_datasheets

Mode	LastWriteTime	Length	Name
d----	18-02-2026 17:26		ml-project

Navigate into that directory

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets> cd  
.\ml-project\
```

Initialize a Git repository

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>  
git init
```

Initialized empty Git repository in S:/Practice Python yourself/AI
projects/Resources_Notes_datasheets/ml-project/.git/

Create four files

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>  
echo "I will learn Git today" > train.py
```

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>  
echo "I will learn Git today" > predict.py
```

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>  
echo "I will learn Git today" > utils.py
```

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>  
echo "I will learn Git today" > README.md
```

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>
LS
```

```
Directory: S:\Practice Python yourself\AI
projects\Resources_Notes_datasheets\ml-project
```

Mode	LastWriteTime	Length	Name
----	-----	-----	----
-a----	18-02-2026 19:06	50	predict.py
-a----	18-02-2026 19:06	50	README.md
-a----	18-02-2026 19:03	50	train.py
-a----	18-02-2026 19:06	50	utils.py

Check the status of your Git repository

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>
git status
```

On branch master

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)

README.md

predict.py

train.py

utils.py

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

Stage only train.py and utils.py

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>  
git add train.py
```

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>  
git add utils.py
```

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>  
git status
```

On branch master

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: train.py

new file: utils.py

Untracked files:

(use "git add <file>..." to include in what will be committed)

README.md

predict.py

Commit these changes with the message "Add training script and utilities"

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>
git commit -m "Adding training scripts and utilities"
```

```
[master (root-commit) 67bdd0b] Adding training scripts and utilities
```

```
2 files changed, 0 insertions(+), 0 deletions(-)
```

```
create mode 100644 train.py
```

```
create mode 100644 utils.py
```

Create a repository on GitHub called ml-project

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>
git branch -M main
```

Link your local repository to this GitHub repository

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>
git remote add origin https://github.com/HarryAI-6748/ml-project.git
```

Push your commits to GitHub

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>
git push -u origin main
```

```
info: please complete authentication in your browser...
```

```
Enumerating objects: 3, done.
```

```
Counting objects: 100% (3/3), done.
```

```
Delta compression using up to 8 threads
```

```
Compressing objects: 100% (3/3), done.
```

```
Writing objects: 100% (3/3), 288 bytes | 288.00 KiB/s, done.
```

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To <https://github.com/HarryAI-6748/ml-project.git>

* [new branch] main -> main

branch 'main' set up to track 'origin/main'.

The commands to retrieve your teammate's changes from GitHub

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project> git pull
```

The commands to stage and commit your local changes

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project> git add train.py
```

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project> git commit -m "First Changes"
```

[main a0b1b3a] First Changes

1 file changed, 0 insertions(+), 0 deletions(-)

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project> git status
```

On branch main

Your branch is ahead of 'origin/main' by 1 commit.

(use "git push" to publish your local commits)

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: utils.py

The commands to push your work to GitHub

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>  
git pull
```

Already up to date.

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>  
git add utils.py
```

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>  
git status
```

On branch main

Your branch is ahead of 'origin/main' by 1 commit.

(use "git push" to publish your local commits)

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

modified: utils.py

Untracked files:

(use "git add <file>..." to include in what will be committed)

README.md

predict.py

```
PS S:\Practice Python yourself\AI projects\Resources_Notes_datasheets\ml-project>  
git push
```

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 8 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 359 bytes | 359.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To <https://github.com/HarryAI-6748/ml-project.git>

67bdd0b..a0b1b3a main -> main

What potential issues might arise and how to handle them

1. The user might push changes without pulling the recent existing changes in remote repository.
2. The user might push the changes into the wrong branch.
3. The user might lose the entire project due to loss of physical hardware and not updating the remote repository first-hand.
4. Users might commit the changes directly without adding it to the staging area which may lead to unchecked errors.