

UNIT-5

20. Initialize a Git repository, commit changes, and push to GitHub; Deploy a personal portfolio site on GitHub Pages or Netlify.

Step 1: Open terminal in your project folder

```
git init
```

PART 2: Add Files to Git

```
git add .
```

(. means add all files)

PART 3: Commit Changes

```
git commit -m "Initial commit - portfolio website"
```

PART 4: Push to GitHub

Step 1: Create repo on GitHub

Go to <https://github.com>

- New Repository
- Name: portfolio
- Create repo (don't add README)

Step 2: Connect local repo to GitHub

```
git remote add origin  
https://github.com/USERNAME/portfolio.git
```

Step 3: Push code

```
git branch -M main  
git push -u origin main
```

Your code is now on GitHub

DEPLOYMENT OPTION 1: GitHub Pages

Steps:

1. Go to your GitHub repo
2. Click **Settings**
3. Click **Pages** (left menu)
4. Under **Source**:
 - a. Branch: main
 - b. Folder: /root
5. Click **Save**

Wait 20–60 seconds

Your site link:

<https://USERNAME.github.io/portfolio/>

DEPLOYMENT OPTION 2: Netlify (Easiest Way)

Method 1: Drag & Drop (No Git required)

1. Go to <https://netlify.com>
2. Login
3. Drag your project folder
4. Done

You get a live URL instantly

Method 2: GitHub Auto Deploy (Professional way)

1. Go to Netlify
2. Click "**New site from Git**"
3. Choose **GitHub**
4. Select your repo
5. Build settings:
 - a. Build command: *(leave empty if plain HTML/CSS/JS)*
 - b. Publish directory: /
6. Click **Deploy**

Auto-deploy on every push

Portfolio Structure Example

```
portfolio/
|
└── index.html
└── style.css
```

```
└── script.js  
└── images/  
└── projects/
```

Important Commands Summary

```
git init  
git add .  
git commit -m "message"  
git remote add origin URL  
git branch -M main  
git push -u origin main
```