AI Lab (Sec E)

GitHub Push Tutorial (Student Guide)

Goal

This tutorial explains how to upload (push) a file from your computer to an existing GitHub repository.

Prerequisites

- Git installed

- GitHub account

- Existing GitHub repository

- Repository HTTPS link

Step 1: Copy Repository Link

Open your GitHub repository, click the Code button, and copy the HTTPS URL.

Step 2: Open Terminal / Command Prompt

Windows: Command Prompt or PowerShell

Mac/Linux: Terminal

Step 3: Navigate to Your Working Folder

Use cd to move to the folder where you want the repository.

Windows tip:

cd /d "PATH_TO_FOLDER"

Step 4: Clone the Repository

Run:

git clone <REPO_URL>

This downloads the repository to your computer.

Step 5: Enter the Repository Folder

Run:

cd <repo-name>

git status

Step 6: Add Your File to the Repo Folder

Your file must be inside the repository folder.

You can drag and drop or move it using the command line.

Step 7: Check Status

Run:

git status

Step 8: Stage Files

Stage one file:

git add <file-name>

Or all files:

git add .

Step 9: Commit Changes

Run:

git commit -m "Add new file"

Step 10: Push to GitHub

Run:

git push

Refresh GitHub to confirm your file appears.

Student Memory Shortcut

git status

git add .

git commit -m "message"

git push

Common Errors

- Not a git repository: Make sure you are inside the repo folder

- Authentication error: Use GitHub Personal Access Token

- Nothing to commit: Ensure file is inside repo