# PRE-JOINING LEARNING PATH

# 1.GIT - GITHUB

# **VERSION CONTROL**

### 1. What is Git?

- Git is a version control system, It is a tool that helps to track changes in code.

#### 2.GitHub for Windows

- htps://windows.github.com

#### 3. Main commands

- git init

initialize an existing directory as a Git repository

git clone [url]

retrieve an entire repository from a hosted location via URL

### 4. Commands used mostly in GitHub.

- git clone [url]: retrieve an entire repository from a hosted location via URL
- git push [alias] [branch]: Transmit local branch commits to the remote repository branch
- git pull: fetch and merge any commits from the tracking remote branch
- git fetch: Downloads objects and refs from another repository but doesn't merge them.
- git commit -m "[descriptive message]": commit your staged content as a new commit snapshot
- add [file]: add a file as it looks now to your next commit (stage)
- git status: show modified files in working directory, staged for your next commitgit

# **5.** How to create Repository from local environment?

- Step 1: Initialize a Local Repository
git init

Step 2: Create a New Repository on GitHub

Go to GitHub and Click on the "+" icon and select "New repository."

Fill in the repository name and description.

Click on the "Create repository" button.

Step 3: Link Local Repository to GitHub

git remote add origin [repository-url]

To verify that the remote was added correctly, run:

git remote -v

Step 4: Check and Rename the Branch

To check the current branch, run: git branch

If your branch is named master and you want to rename it to main, run: git branch -M main

Step 5: Stage and Commit Your Changes

If you have any files to add git add . Step 6: Push Your Changes to GitHub git push -u origin main

# 6. How to undo changes in github?

- gitreset:

clear staging area, rewrite working tree from specified commit