# **Day 18**

# Learned about Git command Line

## **Setup:**

- git config --global user.name "<Your Name>": Sets your name for commits
- git config --global user.email "<Your Email>": Sets your email for commits
- git init: Initializes a new Git repository in the current directory

## **Tracking Changes:**

- git status: Shows the status of your working directory (modified, staged, untracked files)
- git add <file>: Adds a specific file to the staging area for the next commit
- git add .: Adds all modified files in the working directory to the staging area
- git reset <file>: Unstages a file from the staging area (keeps changes in working directory)
- git diff: Shows the difference between the working directory and the index (unstaged changes)
- git diff --staged: Shows the difference between the index and the HEAD (staged changes)

#### **Commits:**

• git commit -m "<message>": Creates a new commit with a descriptive message

# **Branching and Merging:**

- git branch: Lists all local branches
- git branch <br/> branch-name>: Creates a new branch
- git checkout <br/>branch-name>: Switches to a different branch
- git merge <branch-name>: Merges changes from another branch into the current branch
  - Use git merge --ff-only <branch-name> for a fast-forward merge (no merge commit)

# **Undoing Changes:**

- git stash: Temporarily stores uncommitted changes in a stash
- git stash pop: Applies the most recent stash to the working directory
- git stash list: Shows a list of stashes

## **Viewing History:**

- git log: Shows the commit history of the current branch
  - o -n <number>: limit commits shown
  - o --oneline --graph --decorate: compact view with commit graph and references

### **Ignoring Files:**

•	Create a .gitignore file in your project root to specify files or patterns to exclude from versiontrol	sion