ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

DAY – 4 **26 June 2025**

GITHUB :

Git is the free and open source distributed version control system that's responsible for everything GitHub related that happens locally on your computer.

Understanding Github Commands

GitHub commands are an essential part of the Git version control system, which is used to track changes in code and collaborate with others. Git operates on a series of commands that allow users to perform actions like creating repositories, managing branches, and merging changes.

➔ **Check if Git is already installed**

Open your terminal and run:

git –version

➔ **Install Git on Ubuntu**

If Git is not installed, you can install it using:

sudo apt update

sudo apt install git

➔ **After Installation: Set Your Identity**

Once installed, configure your Git identity (required for committing code):

git config --global user.name "Your Name"

git config --global user.email "you@example.com"

➔ **Create or Clone a Repository**

Initialize a new local repo

git init

Clone an existing GitHub repo

```
git clone https://github.com/username/repo.git
```

➔ **Basic Workflow**

```
# Check the status of your repo
git status
# Stage files for commit
git add filename       # Add one file
git add .              # Add all changed files
# Commit staged files
git commit -m "Your message here"
```

➔ **Push & Pull**

```
# Push commits to GitHub
git push origin main
# Pull latest changes from GitHub
git pull origin main
```