GitHub Tutorial

EC5.201: Signal Processing

August 2, 2024

GitHub Installation and Setup

- Create a GitHub account with college email ID.
- For Linux systems, run the following code in the terminal:

```
sudo apt-get install git
```

• For MacOS systems, run the following code in the terminal:

```
brew install git
```

- For Windows systems, download from the link. Run the installer.
- Run the following commands in the terminal:

```
git config —global user.name <your username>
git config —global user.email <your email ID>
```

Generating a Personal Access Token(PAT)

- Log into GitHub and open settings \rightarrow developer settings \rightarrow personal access tokens \rightarrow generate new token(classic).
- Copy this generated token and save it locally as it disappears after generation.
- PAT is recommend as ssh is blocked on LAN.
- Use a VPN to unblock if using ssh.

Cloning a repository

- $\bullet\,$ You need to use the PAT generated above to clone a private repository.
- Copy the repository link from the GitHub page. Open terminal/command prompt and use the command: git clone https://<PAT>@github.com/<your account or organization>/<repo>.git (P.S: <> is only for demonstration.)

Pushing Code to the repository

- git add.
- git commit -m "commit message"
- git pull
- git push

Make sure to always PULL before to PUSH to avoid merge conflicts