Documentation for SetUp

Setup Git in Your System

1. Go to the link: Git - Downloading Package (git-scm.com)
2. Click download: You will be connected to your GitHub account.
    - If you have 2FA set up, it will ask for one-time verification. Click verify, and you can pull the code from whichever authentication app you are using (e.g., Duo or another method).
3. Once the `.exe` file is downloaded, click on it.
4. Accept the terms and conditions for installation.
5. Before installation, you will see a message showing what will be installed, including Git Bash.
6. Once you download Git from the above link, you should be able to see Git Bash installed.

Set up SSH Key

1. Open Git Bash and paste this text:

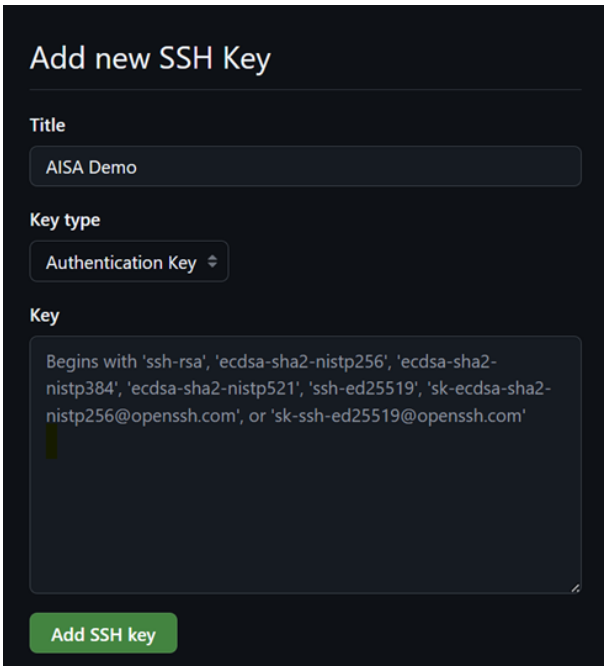
```
ssh-keygen -t ed25519 -C "your_email@example.com"
```

2. Add the file to save the keys (just press `enter` to accept the default path unless you want to change it).
3. It will ask for a passphrase. Press `enter` twice to skip.
4. After this, you will get a key part, save it somewhere for later use. The key will look something like this.

```
Begins with 'ssh-rsa', 'ecdsa-sha2-nistp256', 'ecdsa-sha2-nistp384', 'ecdsa-sha2-nistp521', 'ssh-ed25519', 'sk-ecdsa-sha2-nistp256@openssh.com', or 'sk-ssh-ed25519@openssh.com'
```

Add SSH Key to GitHub

1. Go to your GitHub account:
    - **Settings** => **SSH and GPG keys**
2. Add a new SSH key:
    - Take the key from Git Bash and paste it into the key section.
    - Set the title as "AISA" or anything else that you prefer.

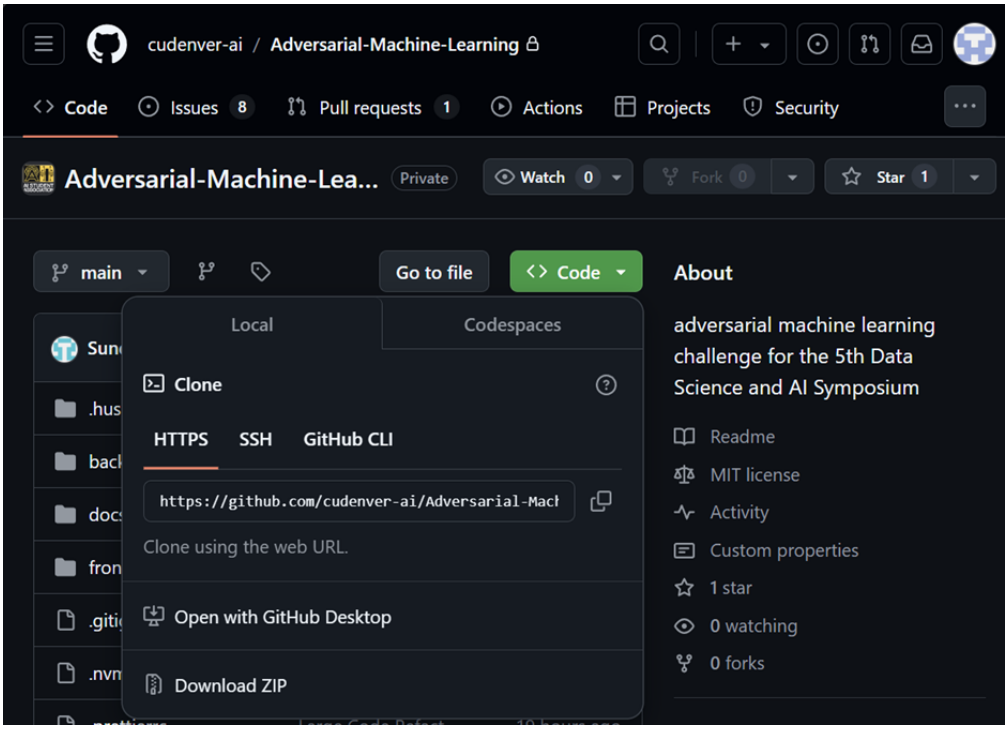


3. After this, your SSH key will be generated. Make sure to use your public key. You can use the `cat` command to show it:

```
cat path_to_your_file/name.pub
```

Clone the Repository

1. Go to your GitHub account:
    - Navigate to **cudenver-ai** organization.
    - Go to **Adversarial Machine Learning**.
    - Click on **Code**.
    - Click **HTTPS**, then copy the link.



2. Open Git Bash:
    - Type `git clone` and paste the link.

```
git clone <paste_the_link>
```

> **Recommendation:** Open the repositories in Visual Studio. You can also use GitHub Desktop.

Code Setup

Back-end Installation – Anaconda is Recommended

1. Link to download Anaconda: Download Anaconda Distribution | Anaconda
2. Open Anaconda prompt:

```
conda create -n aisa python=3.10
```

    - *`aisa` is the name of a folder; you can change it.*

3. It will show a list of installations that will happen. To proceed, press `Y`.
4. Activate the environment:

```
conda activate aisa
```

5. Navigate to the path of your folder (Documents\GitHub\Adversarial-Machine-Learning) for GitHub:

```
cd path_of_your_folder
```

6. Install required dependencies:

```
pip install -r requirements.txt
```

7. Navigate to the back-end folder:

```
cd back-end
```

8. Run the back-end:

```
python app.py
```

Front-end Installation

1. Link to download Node.js: Node.js — Download Node.js® (nodejs.org)
2. Go to the pre-installer build, choose the latest LTS version, and follow the steps for setup on the Installer.
3. Open Anaconda prompt, Enter path of yuor folder (Documents\GitHub\Adversarial-Machine-Learning):

```
cd path_of_your_folder
cd front-end
```

4. Install dependencies:

```
npm install
```

5. Run the development server:

```
npm run dev
```

6. Then use the local host link to open the website. The back-end should be active at the same time.

Start Back-end

1. Open Anaconda prompt:

```
conda activate aisa
cd path_of_your_folder
cd back-end
python app.py
```

Start Front-end

1. Open Anaconda prompt:

```
cd path_of_your_folder
cd front-end
```

```
npm run dev
```

2. Then use the local host link to open the website. The back-end should be active at the same time.