

## Task-1: Create a New GitHub Repository and Set Up Your Project Structure

### Objective:

You will create a new GitHub repository named `Amit` and set up the following folder structure for a Python project focused on Machine Learning.

### Instructions:

#### 1. Create a New GitHub Repository:

- Go to [GitHub](#).
- Log in to your account.
- Click on the "+" icon in the top right corner and select "New repository."
- Name your repository `Amit`.
- Add a description (optional) and choose whether to make it public or private.
- Click on "Create repository."

#### 2. Clone the Repository to Your Local Machine:

- Open VSCode.
- Open the terminal in VSCode (View > Terminal).
- Run the following command to clone your repository (replace `<your-username>` with your GitHub username):

```
bash
Copy code
git clone https://github.com/<your-username>/Amit.git
```

- Navigate into the cloned repository:

```
bash
Copy code
cd Amit
```

#### 3. Create the Folder Structure:

- Inside the `Amit` folder, create a folder named `python-for-ml`. You can do this in the terminal:

```
bash
Copy code
mkdir python-for-ml
```

#### 4. Create a README File:

- In the root of the `Amit` repository, create a file named `README.md`:

```
bash
Copy code
touch README.md
```

- Open `README.md` in VSCode and add the following content:

```
markdown
Copy code
# Amit Repository

## Project Overview
This repository is designed for Python projects related to
Machine Learning.

## Folder Structure
- `python-for-ml/`: Contains Python scripts and resources for
Machine Learning.

## Getting Started
To get started with this project, clone the repository and
navigate to the `python-for-ml` folder.
```

### 5. Stage and Commit Your Changes:

- In the terminal, stage the changes:

```
bash
Copy code
git add .
```

- Commit the changes with a message:

```
bash
Copy code
git commit -m "Initial setup: Created folder structure and README
file"
```

### 6. Push Changes to GitHub:

- Push your changes to the GitHub repository:

```
bash
Copy code
git push origin main
```

### 7. Verify Your Changes on GitHub:

- Go back to your GitHub repository in your browser and refresh the page to see the new folder structure and the README file.

## Deliverables:

- A new GitHub repository named `Amit` with the specified folder structure.
- A `README.md` file containing the project overview and instructions.

## Bonus:

- Experiment with adding additional Python scripts in the `python-for-ml` folder and document their purposes in the README file.

