

## Assignment # 2

Following are the tasks for your second week of the internship:

1. Administrative tasks
2. Prepare your machine
3. Environment Management
4. Familiarization with Jupyter-Notebook
5. Glimpse of CI/CD
6. Setup Llama 2
7. Train your model on MNIST dataset

### Administrative tasks

- Your sitting arrangement:
  - All of you are requested to sit in “Information Processing and Transmission Lab”, located in SEECs-NUST. **Note:** Office Timings are from 10am till 4pm.
  - Ensure that you have internet connectivity and a charging port beside your desk.
  - In case of any issues, don't hesitate to contact **Ahmed Mohsin**. His contact no. +923181836426.
- Submit the required documents to NSTP office for the ‘Entry Card’.
  - 2 passport-size pictures and 2 CNIC photocopies.
- Get in touch with your assigned mentor.
  - This information will be communicated to you on coming Thursday.

### Prepare your machine

- Ensure that you have a suitable laptop to carry out Internship assignments.
- Required Installations:
  - Python
  - Pip
  - Anaconda (if you are using windows)
  - Git bash (if you are using windows)
  - Jupyter notebook
  - VS Code
  - Dual boot/ VMware (optional) --- Only for the windows users

## Environment management

Learn to create virtual environments to segregate projects with each other. It's a powerful concept. You are required to go through the followings:

- (Venv) <https://docs.python.org/3/library/venv.html>
- (Conda) <https://conda.io/projects/conda/en/latest/user-guide/getting-started.html>

## Familiarization with Jupyter-Notebook

Use Jupyter-Notebook on VS Code and switch through multiple environments created by you during the practice of last task.

## Glimpse of CI/CD

<https://www.freecodecamp.org/news/how-to-setup-a-ci-cd-pipeline-with-github-actions-and-aws/>

Write a brief review after reading the article.

## Setup Llama 2

Read about it. We will discuss it on coming Thursday.

## Train your model on MNIST dataset

Go through the [Repo](#) and fork it into your GitHub account.

## Mentor Information:

| Internee              | Mentor                |
|-----------------------|-----------------------|
| Muhammad Usman Malik  | Saad Iqbal            |
| Ali Kamal Mustafa     | Muhammad Kazim        |
| Muzaqqa Shoaib        | Muhammad Umer         |
| Mohammad Haider Abbas | Huzaifah Wasim        |
| Shizza Fatima Shafqat | Muhammad Ahmed Mohsin |
| Hasan Nasrullah       | Sikandar Bakht        |