

Belal Ahmed Siddiqui <belalahmedsiddiqui8@gmail.com>

Session 2 - Preview/Pre-read: ERA V4

2 messages

ERA V4 <notifications@instructure.com>

19 August 2025 at 07:29

 $Reply-To: reply+48856 \\ \bar{7} e 41 bab 9 c 63-7 \\ \sim 934259337-1755568749 \\ @notifications. can vas lms. come from the companion of the compan$

To: belalahmedsiddiqui8@gmail.com

Session 2: Python Essentials, Version Control, and Web Development Basics What we'll cover

1. Version Control with Git & GitHub

- Why version control matters (history, collaboration).
- Basic Git commands: init, add, commit, status, log.
- Local vs remote repos (GitHub).
- Branching, merging, collaboration basics.
- Hands-on: create a repo, track changes, push to GitHub.

2. Python 101 Refresher

- Core syntax relevant for AI programming.
- Data structures (lists, dicts, sets, tuples).
- Functions, loops, conditionals.
- Hands-on coding exercises.

3. Web Development Basics

- $\quad \ \bullet \quad \ \ \text{Introduction to HTML, CSS, and JavaScript.} \\$
- Building a simple single-page interface.

- Hosting via **Flask** (Python micro-framework).

4. Deployment on Cloud (AWS EC2)

- Setting up a free-tier Ubuntu instance.
- Cloning your GitHub repo to EC2.
- Running your Flask app on the cloud.
- Accessing it in the browser from anywhere.

5. Mini-Project Assignment

- Build a small Al-related demo app.
- \circ Push to GitHub \to Deploy on EC2 \to Record demo video \to Share links.

Pre-read (before class)

Install Git → git-scm.com/downloads
 Verify with:

```
git --version
```

· Configure Git:

```
git config --global user.name "Your Name"
git config --global user.email "you@example.com"
```

- Brush up Python basics if possible:
 - Lists, dicts, loops, functions.
- Skim through HTML/CSS/JS basics (if possible):
 - What's a <div>?
 - How CSS styles HTML?
 - What does JavaScript do in a web page?

- Create a GitHub account if you don't already have one.
- Create AWS account if you don't already have one.

Outcome

By the end of Session 2, you'll be able to:

- Use Git/GitHub to track & share your code.
- · Write small Python utilities confidently.
- Build a simple Flask web app with a modern UI.
- Deploy your app on AWS EC2 so the world can access it.



View announcement | Update your notification settings

ERA V4 <notifications@instructure.com>
Reply-To: reply+bfa9bae8401565c6-7~934260374-1755568875@notifications.canvaslms.com
To: belalahmedsiddigui8@gmail.com

[Quoted text hidden]

19 August 2025 at 07:31