

ECE157A Final Project Phase1 Instruction

ECE157A TAs

November 2021

Phase 1 Due: Wednesday, 24th of November
Submission: schedule live demo with TAs
Group: allow working as a group of 2-3 people

1 Phase 1 Requirements

Phase 1 of the final project requires implementing a file uploading mechanism as shown in Fig.1. It includes the following components:

- A web page that can be opened on your `localhost` with a title *Welcome to Machine Learning Analytic*.
- A sub section with a title *Upload CSV* for file uploading.
- An interactive input text box for specifying the name of the file to be uploaded.
- A button that pops up a prompt when clicked for choosing file from local folders.
- A button for uploading the file onto database once clicked.
- Other texts for descriptions and responses.

Note that the HTML form template is provided by the TAs. So your job is mainly on implementing the server side with Django framework, including: configure the SQLite database, handle the http requests etc. See this video tutorial for detail

2 Recommended Flow

- Read the Final Project Overview to understand the overall spec.
- Follow the *Final project phase 1 step-by-step guide* along with this video tutorial provided by TAs to implement phase 1.
- Try proceed to implement the rest of requirements on your own before TAs release the detailed tutorial.

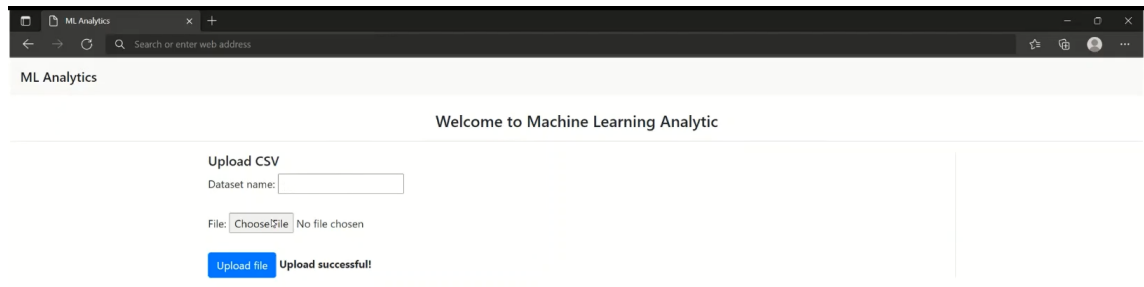


Figure 1: Phase 1 Demo

3 Phase 1 Grading

You should at least implement the file uploading as shown in Fig.1 by the end of phase 1. But we encourage you to implement more functionalities ahead of time.

In order to get full credits on phase 1, you need to demonstrate the following parts:

- Setup and run Django server on local host. (5 points)
- Configure the database model for file uploading. (5 points)
- Establish the client-server communication with GET/POST methods. (5 points)
- Successfully store all three csv files to the server database after client request. (5 points)
- Render a user-friendly front-end GUI as shown in Fig 1, with the required components listed in Section 1 (1 point each, total 6)

4 Phase 1 Demo

TAs will schedule a 10-minute demo time slot with each group start **from Mon., Nov 22nd to Wed., Nov 24th**. You will start the server and show your code and web page via screen sharing. Everyone in the group should be prepared to answer some questions regarding your implementation.

TA will send out the Google sheet for signing up the final demo. Stay tuned on Piazza!