Heroku Deployment and Project Work

Data Boot Camp
Lesson 20-3.2

The Big Picture

Python Unit
Python
Pandas
Matplotlib
APIs
Unit Assessment

Visualization Unit
Web Scraping
Plotly
Leaflet
Tableau
Unit Assessment

Final Project
Project Design
Train Model &
Build Database
*Dashboards
Presentation*

01

02

03

04

05

06

Excel Unit
Excel
VBA
Unit Assessment

Databases Unit
SQL
ETL
SQLite
Unit Assessment

Advanced Topics Unit
R—Stats
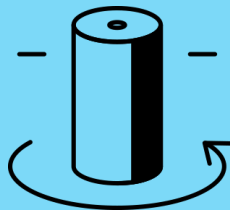Big Data—AWS
Machine Learning
Unit Assessment

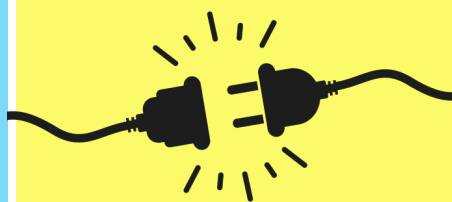# Project Segments

This Week: "Plug It In"

Sketch It Out

Decide on your overall project, select your question, and build a simple model. You'll connect the model to a fabricated database using comma-separated values (CSV) or JavaScript Object Notation (JSON) files to prototype your idea.

Build the Pieces

Train your model, and build out the database you'll use for your final presentation.

Plug It In

Connect your final database to your model, continue to train your model, and create your dashboard and presentation.

Put It All Together

Put the final touches on your model, database, and dashboard. Lastly, create and deliver your final presentation to your class.

This Segment: Capstone Project

By the end of this segment, you will be able to:

Demonstrate data visualization best practices

Explain the process of Heroku deployment

Create a professional presentation

Host a working model of your application on a website

Module 20

Today's Agenda

Today's Agenda

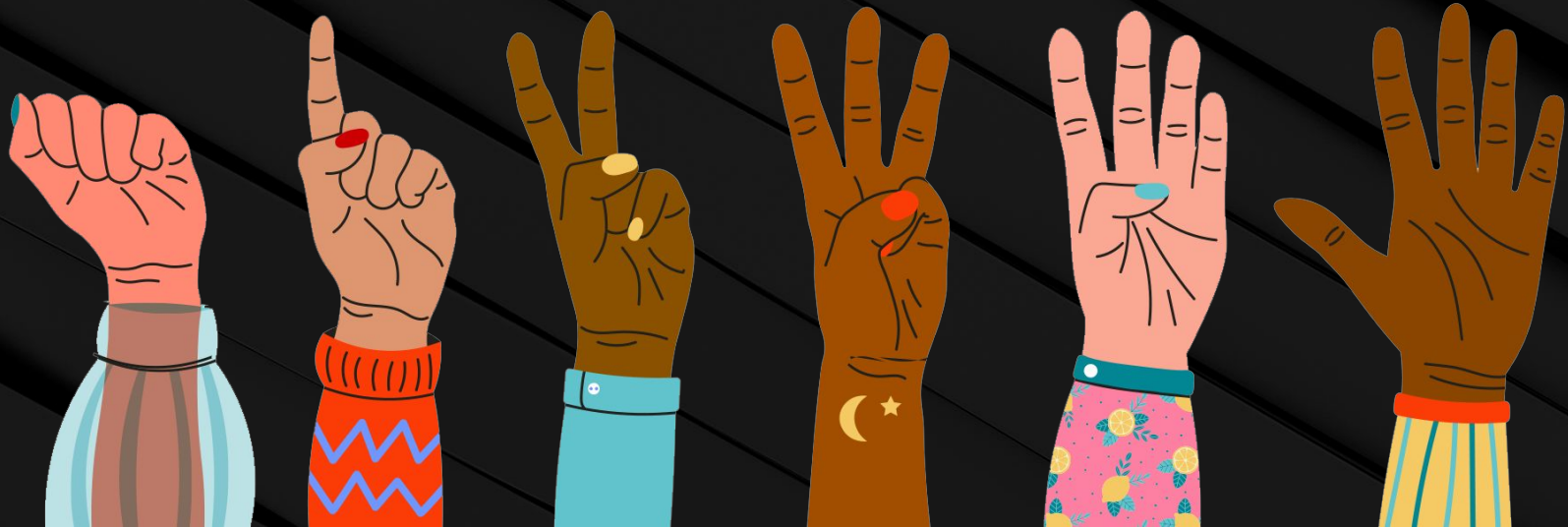By completing today's activities, you'll...

01   Develop and deploy a website on Heroku

💡 **Make sure you've downloaded any relevant class files!**

FIST TO FIVE:

How are you feeling about your progress on the final project so far?

By this point

At this stage in the project, you should have the following completed:

01 Database is finalized

02 A description of technologies used is included in presentation

03 A draft presentation has been created

04 Branches are merged, and new ones are created for this segment's tasks

05 Work on the final dashboard has begun

Group Work

Everyone has assigned roles	● Who's working on what? ● Who needs help?
Handling blockers	● Work you need others to finish before you can progress. ● Are there database or ML issues?
Using GitHub	● Branches ● Pull requests
Next week	Plan for what needs to get accomplished by next week.

Today's Class

Today's class will consist of the following:

01

You'll work on your project with your group.

02

TAs and I will be circulating among the groups.

In the check-ins, you will show us the progress you have made as if we were shareholders.

03

In the check-ins, we will:
- Answer questions.
- Help you work through sticking points.

Shareholder Update Pitch

We'll spend some time with each group, and you'll show us the progress you have made so far on your project. Treat us as if we were shareholders at your employer.

This pitch/update should contain the following:

A draft of the Google slides

GitHub repo and `README.md` file with a description

A brief description of the performance of the machine learning model

Work done on the dashboard or storyboard

A summary of the project work that needs to be done by next week

Time to Code

Heroku Application Deployment

In this activity, you will gain experience in deploying an application, which you can then apply to your projects.

Suggested Time:

30 Minutes

Time to Code

Group Project Check-ins

Suggested Time:

1 hour and 5 minutes

Project Progress

For the next class, you will be working on the following:

Making sure the project README.md has a conclusion and all the visualizations

Merging all PRs that are vital to the project

Completing all peer reviews; confirming that all code meets the guidelines (e.g., PEP8 for Python); and checking that code is clear, concise, and documented

Making all the final touches to the dashboard and presentation