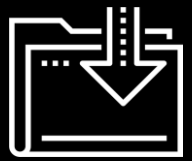
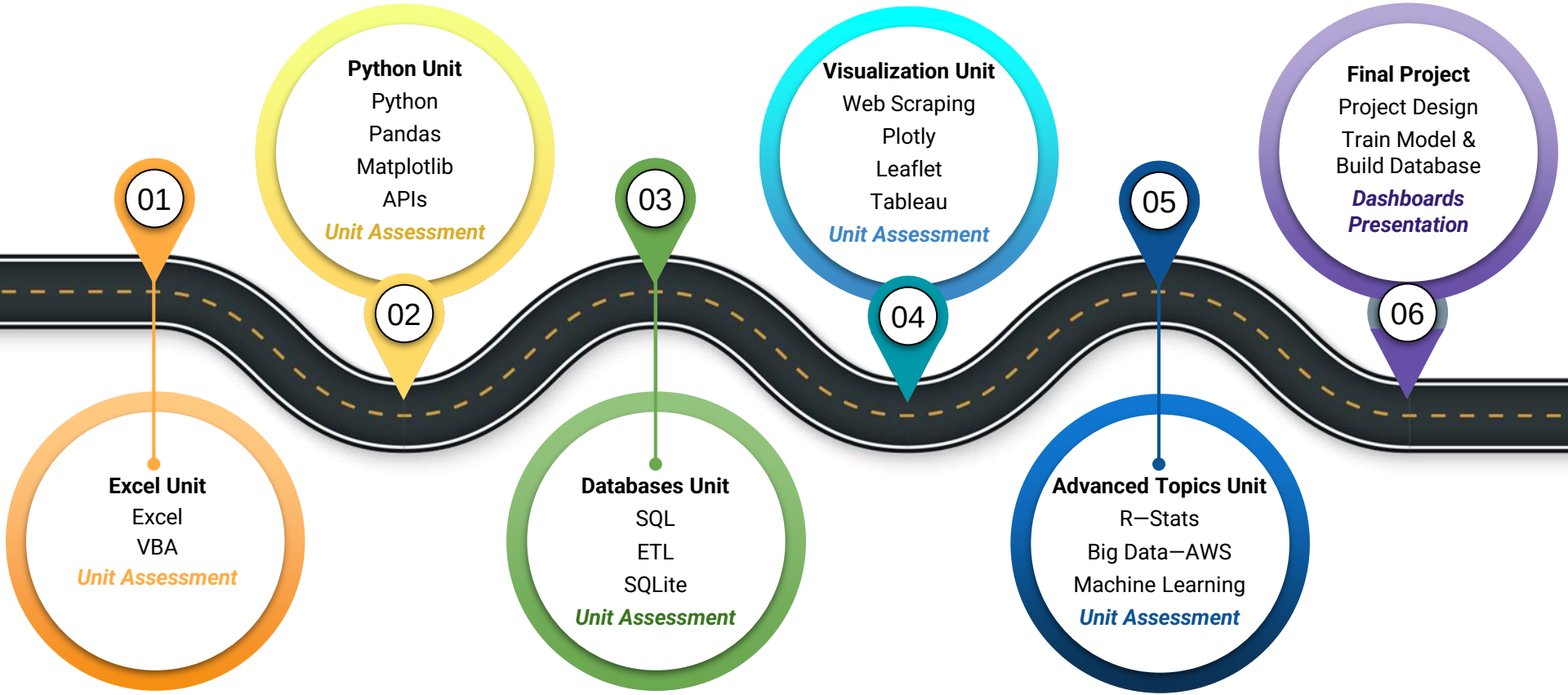
Project Work

Data Boot Camp

Lesson 20-2.4



The Big Picture



Quick Tip for Success:

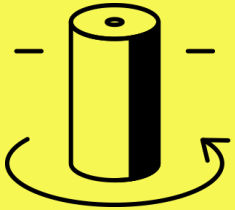
Don’t forget to attend future Office Hours sessions for help if you have trouble in phases of setup and connection in AWS and PostgreSQL.

Project Segments

This Week: “Build The Pieces”

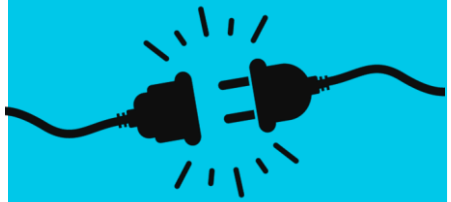
Sketch It Out

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'll will have:

Connected your machine learning model into the project

Optimizing the integration of the database into the project

Have all necessary GitHub branches merged

Finalized your dashboard

Module 20

Today’s Agenda

Today’s Agenda

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

01 Complete the pieces for your project

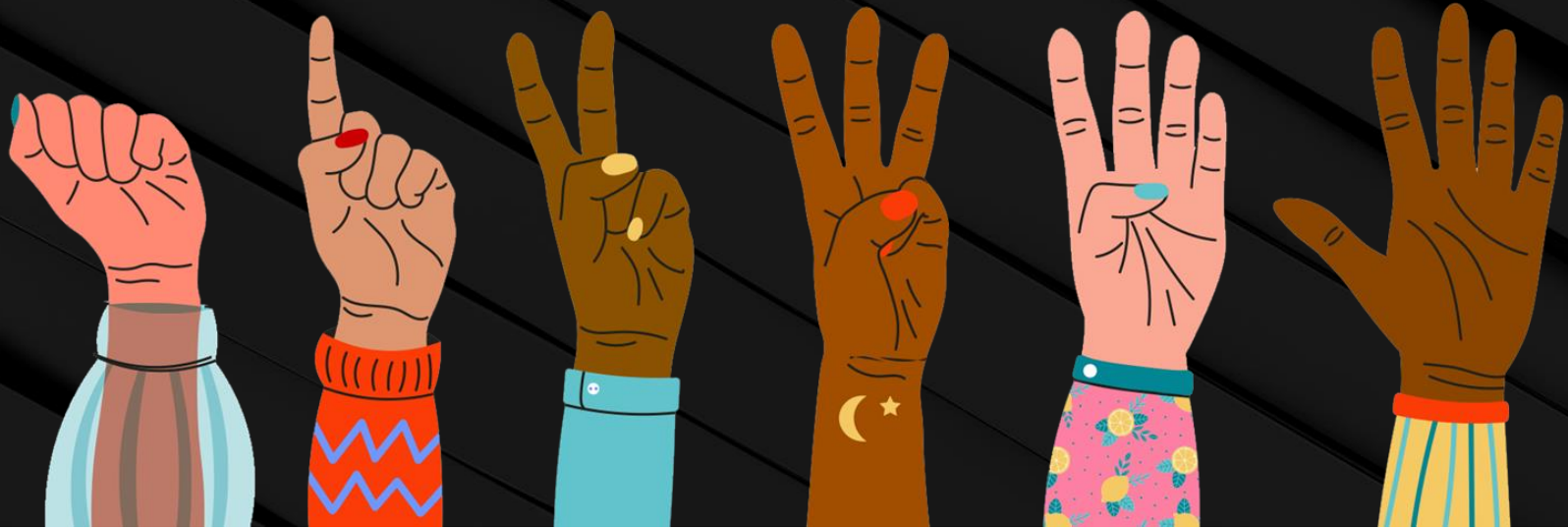
02 Present an update or progress report to stakeholders

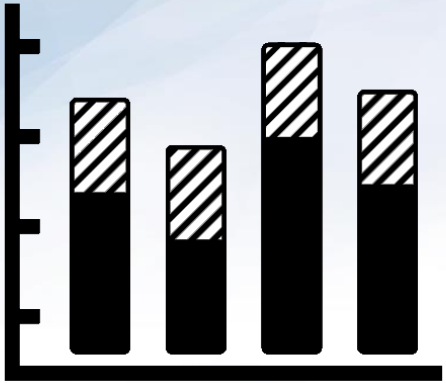
01 Manage group check-ins

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?





Please respond to the following poll:

How are you feeling about the current state of your project?

1. It’s ready for the next stage!
2. I’m a little stressed, but the project will be ready for the next stage in time.
3. One or two members are behind. I’m a little worried.
4. We are all behind on our parts. I'm really worried. Help!

Suggested Time:
5 minutes

By this point

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

01 Move from a preliminary model into your machine learning model.

02 The mockup database is integrated and refined.

03 The visuals that help tell the data story are created.

04 Merge in branches and create new ones for this segment's tasks.

05 Create an outline or storyboard for the final dashboard.

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

Work on your project with your group

02

TA’s and myself will be circulating among the groups.

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

03

In the check-ins we will:

- Answering questions.
- Help you work through sticking points.

Shareholder Update Pitch

We will spend some time with each group and you will shows us the progress you have made so far for your project as if we were shareholders for the business you work for.

This pitch /update should contain the following:

- A draft of the Google slides.
- GitHub repo and `README.md` file with description.
- An brief explanation of the description of ML model from preprocessing to training and testing.
- An overview of your database with tables and relationship, and a connection string (SQLAlchemy or PyMongo).
- A blueprint for the dashboard or storyboard (this can be part of the Google slides).
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Rubric at a Glance

Categories for grading:

01 Presentation outlines the project (15 points)

02 All code in main GitHub repository branch is production ready (10 points)

03 Code is submitted for the machine learning model (30 points)

04 Presentation of a fully integrated database (30 points)

05 A blueprint for the dashboard is created (15 Points)

Group Project Check-ins

Suggested Time:

1 hour and 35 minutes