



# Capstone Project: Segment 2

Data Boot Camp  
Lesson 20-2.1



# The Big Picture





## **Quick Tip for Success:**

As your team builds the pieces of the final project, make sure each team member is held accountable for their work.

# Project Segments

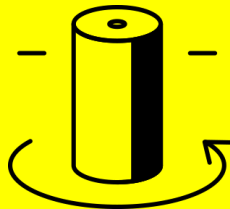
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## This Week: “Build The Pieces”



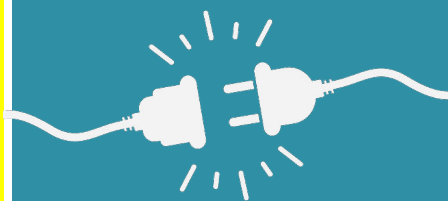
### Sketch It Out

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

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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

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

01

Understand the best practices to follow when creating a dashboard

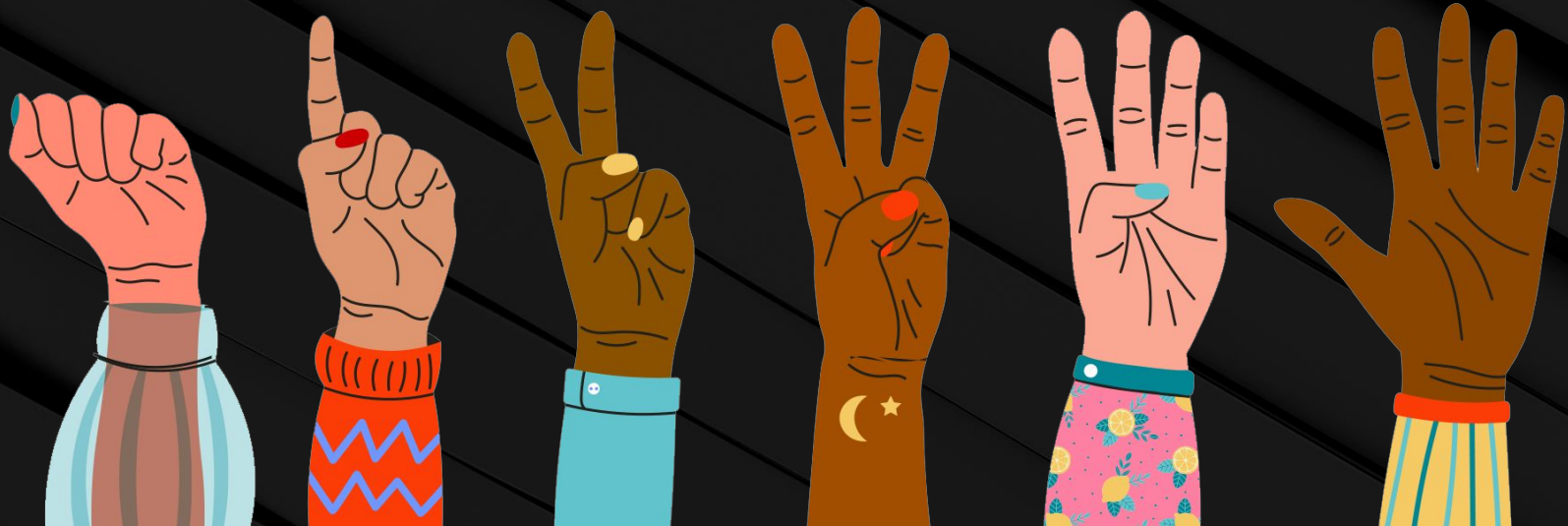


Make sure you've downloaded  
any relevant class files!

## FIST TO FIVE:

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





# Dashboard Best Practices



**What story do you want you data to tell?**

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**Do you have a goal?**

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**What kind of message will your dashboard display?**



**This information should be on hand  
before a dashboard is planned out  
and built.**

# Dashboard Best Practices

The goal of a dashboard is to convey data in a clear, concise manner.

A good rule of thumb is for the dashboard to be understood by a neutral party within five minutes; that is, they are able to:



View it



Interact with it



Understand the data



# Reduce the Clutter and Optimize

Although spreadsheets are awesome and can contain tons of helpful information, it's often too much to take in quickly.

Narrow it down  
to the pertinent  
information, such  
as a trend.



# Reduce the Clutter and Optimize

Graphs and charts can also be visually overstimulating. Simple is often best in these cases; if a user wants to gain more information about the topic, then they can drill down into the data for more detail.





**Think of the top-five things you want users to take away from your dashboard, and focus on them. This streamlines the data being displayed and makes it easier and quicker to process.**

# Streamline the Layout

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01

Don't toss all of the visualizations together just because you have them. Arrange them so that the flow of data being displayed makes sense.

02

Start with the key data—the data that presents users with the biggest takeaway.



# Make Use of Color

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01

Adding color and/or gradients to visualizations and your dashboard helps make the data stand out. It's visually appealing and helps users take the information in more easily.

02

Use color correctly. For example, a heatmap typically uses warmer colors to represent higher concentrations of data. If the color scheme was flipped, it may be confusing.

# Integrate Interactivity

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01

Letting users interact with the dashboard helps engage their interest.

02

Interactivity includes tooltips, drilling down further into data, filters, and navigation.



## Project Development Consultation

This is your time to ask questions and get assistance from the instructional staff as you're working on your projects over zoom with your team members.

Please take full advantage of the time.

**Suggested Time:**  
1 hour 35 minutes



# Project Progression—Next Steps

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



Creating a working machine learning model



Creating an integrated database



Working on you dashboard



Finishing up the EDA process

# Questions?

