Algorithmic Bias

Data Boot Camp

Lesson 16.2

© 2022 edX Boot Camps LLC. Confidential and Proprietary. All Rights Reserved.

WELCOME

Class Objectives

By the end of today's class you will be able to:

Explain why algorithmic bias is such a significant concern.

List some common causes of algorithmic bias.

Analyze a case study in which researchers identified algorithmic bias in a system.

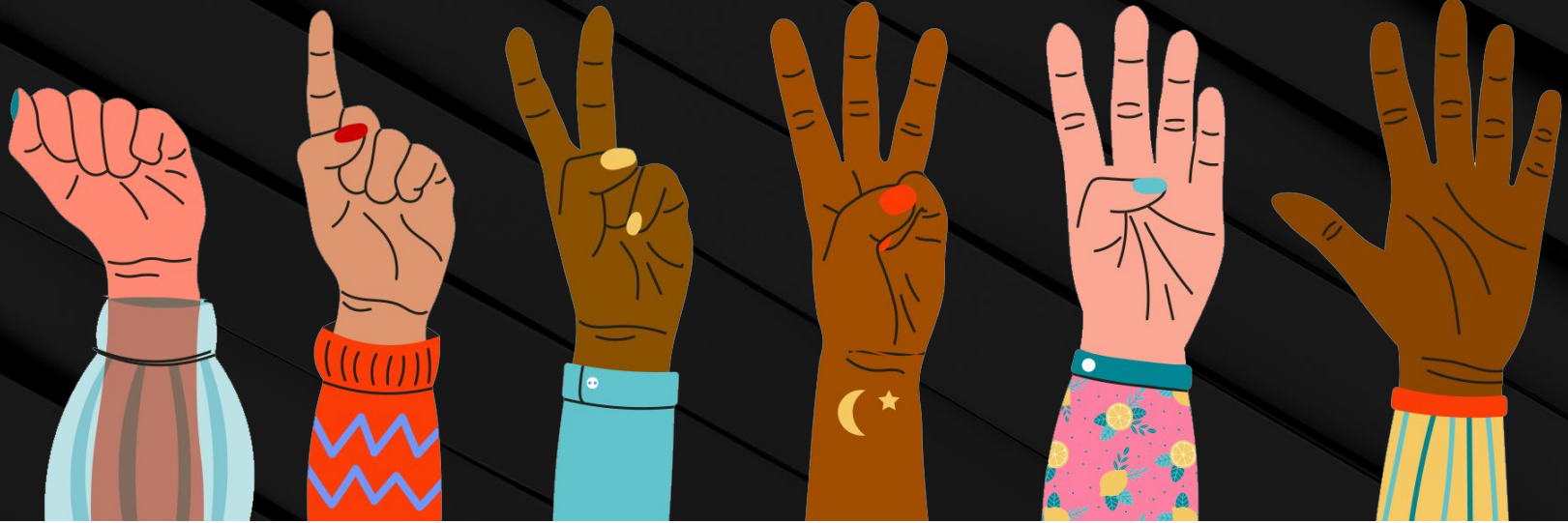
How are you feeling about your progress so far?

You’re starting to build your skill set.

It’s okay to feel overwhelmed, but don’t give up.

FIST TO FIVE:

How comfortable do you feel with this topic?

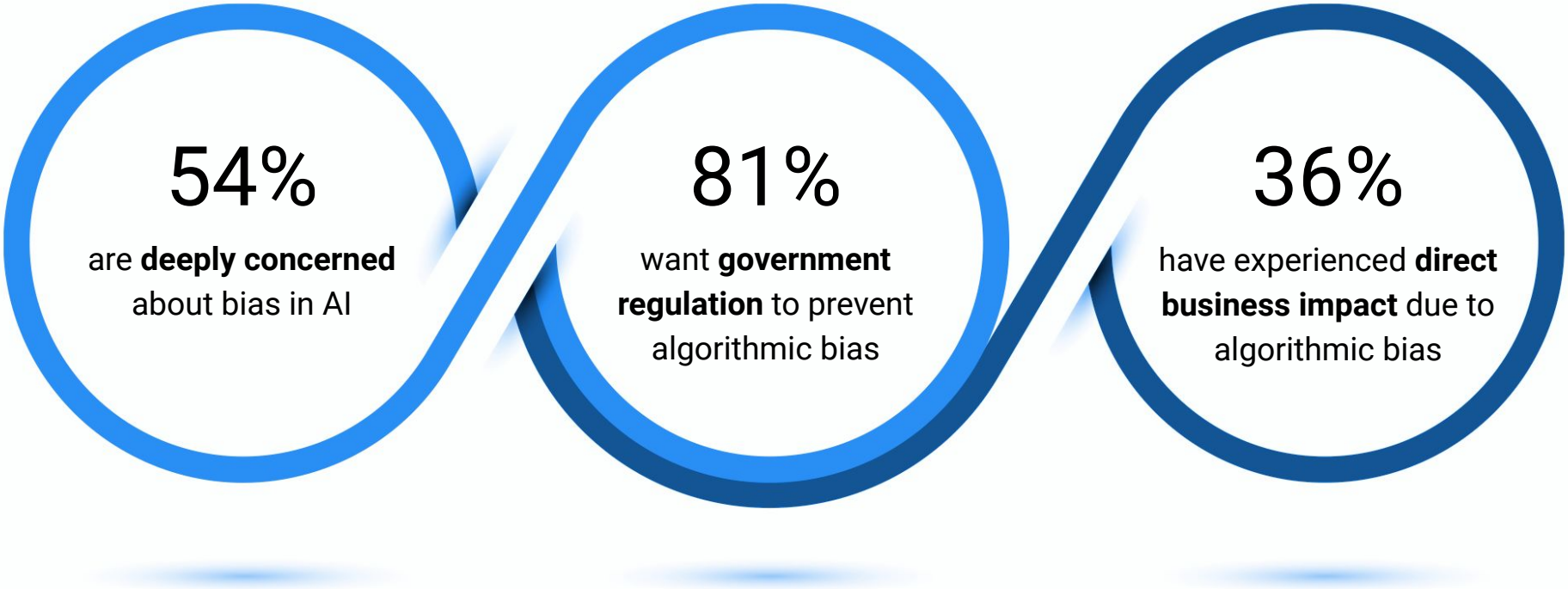


Introduction to Algorithmic Bias

Algorithmic bias refers to situations in which automated systems have a bias either in favor of or against certain groups of people.

Technology Leaders on Algorithmic Bias

According to Data Robot's 2022 study of 350 leaders in tech…

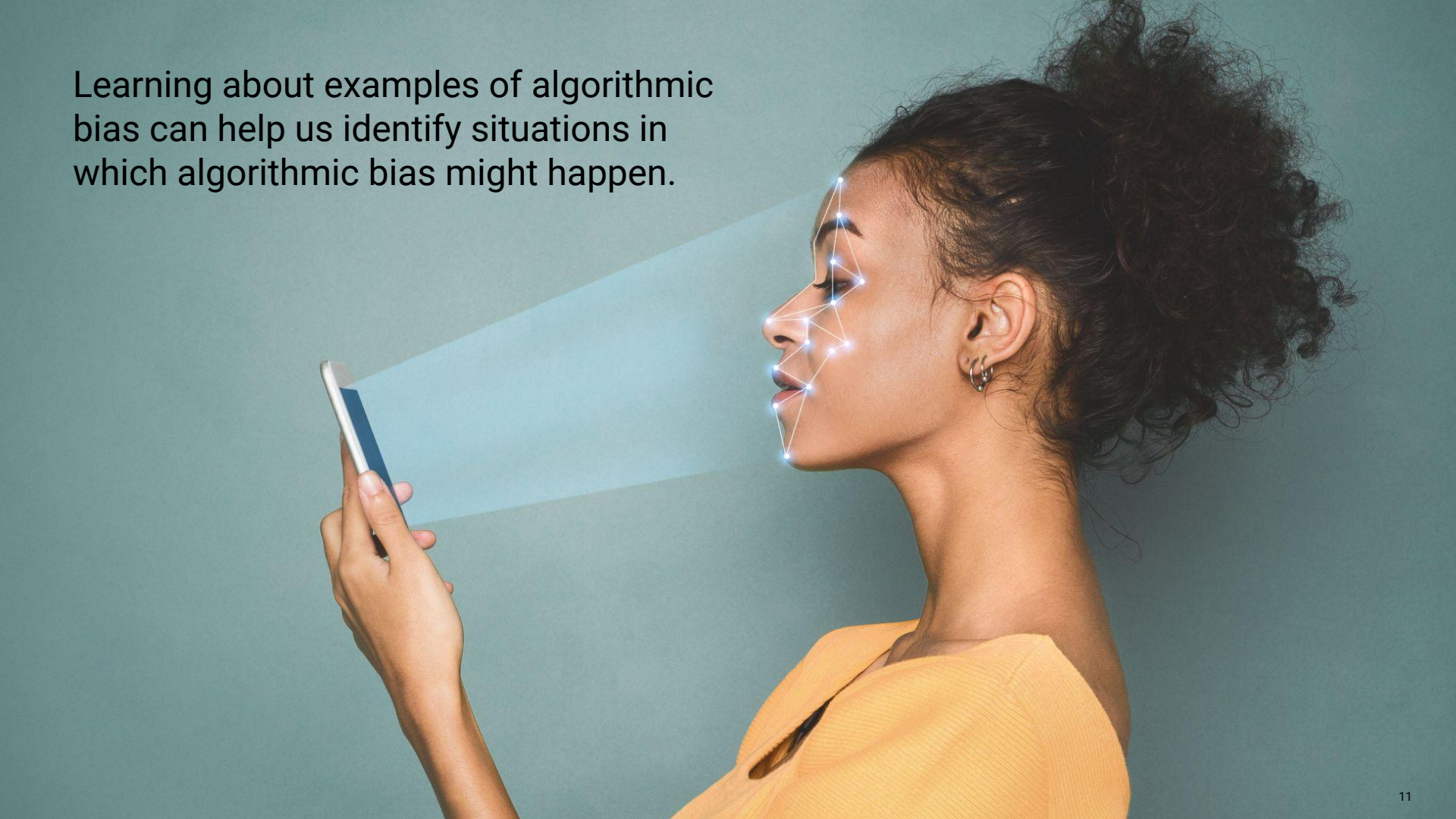


Business Impact of Algorithmic Bias

Of the 36% that experienced direct business impact

- **62%** Lost Revenue
- **61%** Lost Customers
- **43%** Lost Employees
- **35%** Incurred legal fees due to a lawsuit or legal action
- **6%** Suffered damage to brand reputation

Learning about examples of algorithmic bias can help us identify situations in which algorithmic bias might happen.



Algorithmic Bias

The more that we know about these situations, the more we can do two things.

01

Notice common factors that cause these issues.

02

Continue to follow up on these stories to find out how companies worked to correct the bias that they found.

Activity: Healthcare Bias

In this activity, you will learn about an instance of algorithmic bias in the healthcare industry. In 2019, researchers found that a widely used algorithm for assessing healthcare needs was racially biased.

Suggested Time:

15 Minutes

Time’s Up! Let’s Review.

5 Minutes

Questions?

Recap

Questions?

Project 3 Group Work

Questions?

The End