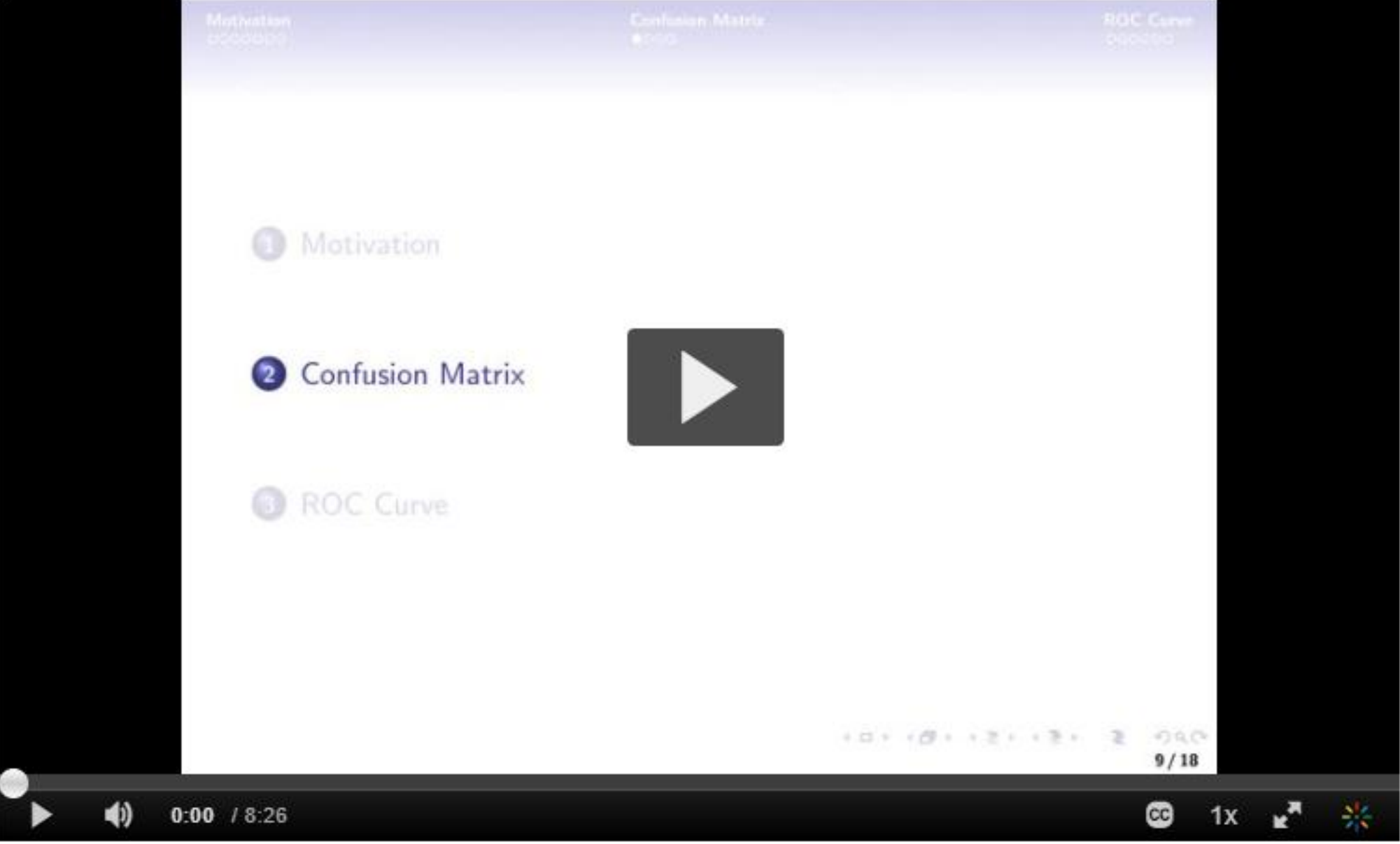## 10.2: Logistic Regression Validation

View the videos below. The corresponding slides can be downloaded below the videos. As you view them, take notes on the following.

1. How do we go about evaluating the predictive ability of a classification model?

2. How do we use a confusion matrix to calculate the accuracy, false positive rate, false negative rate, sensitivity, specificity of our model?

3. How does changing the threshold affect the false positive rate, false negative rate, sensitivity, specificity of our model?

4. In a Receiver Operating Characteristic (ROC) curve, what are the values on the vertical and horizontal axes?

5. What does the ROC curve look like for a model that randomly guesses outcomes?

6. What does the ROC curve for a logistic regression model that classifies outcomes well look like?

7. What is the Area Under the ROC Curve (AUC) measuring? What values indicate a model that randomly guesses? What values indicate a model that classifies outcomes well?

Part 1

Part 2

Part 3

📄 mod10_ROC.pdf
Slides to accompany the "Logistic Regression Validation" videos