

Computer Vision

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Lesson 1

Exercises

You may respond in English or French, whichever is more comfortable. The best answers are concise and direct. You may work individually or as a group.

- 1) What is an ROC curve and how is it used?
- 2) What does it mean for an ROC curve to pass below the line from (0, 0) to (1, 1)? Use the mathematics to explain your answer.
- 3) You are given a classifier with an ROC curve for that passes the point (FNR = 0.01, FPR = 0.1). Is it possible to determine the Probability of Error for the classifier at this point? If yes, give the formula. If no, explain why.