Due Mar 14, 1:44 PM +0545

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Analyzing Bias

Analyzing Bias

Total points 10

Quiz • 30 min

Review Learning Objectives

1. One measure of fairness is demographic parity, which means that the positive percentage is the same for all groups. Suppose Ants are 60% of the population, and Bunnies are 40% of the population. Your model predicts a positive result for 10 Bunnies. For how many Ants should the model predict a positive result to satisfy demographic parity?

1 point

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2. One measure of fairness is equality of odds, which means that, all else being equal, the model is equally likely to make a positive prediction for a member of either class. Suppose that being able to run fast is meaningful to the prediction, and other properties are not considered. Your model predicts a positive result for 3 of the 30 Cats which can't run fast, and 20 of the 40 Cats which can run fast. If there are 10 Dogs which can't run fast, and 20 which can run fast, how many positive predictions should there be for equality of odds?

1 point

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