✓ Correct

social discrimination.

Congratulations! You passed!

Grade received 100% To pass 80% or higher

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Model Analysis and Debugging Total points 6 1. When evaluating an ML model during training the goal is to improve top-level metrics such as overall accuracy. This information is used to decide whether the 1/1 point model is doing well or not, but it doesn't show how well it does on individual parts of the data. Which technique is extremely helpful to address this shortcoming? Data Slicing TensorFlow Metric Analysis (TFMA) Streaming metrics Apache Beam **⊘** Correct That's right! Slicing deals with understanding how a model is performing on each subset of data. 2. Streaming metrics are approximations to full-pass performance metrics computed on _ 1/1 point the full validation data set. the full data set mini-batches of data slices of data ✓ Correct That's right! This is a nice way to approximate the full-pass metrics without incurring a huge computational overhead cost. 3. A recent credit card loyalty program offered by a big technology company has been labeled as "sexist", a clear example of algorithm based social 1/1 point discrimination. Let's examine a user complaint on Twitter: "My wife and I filed joint tax returns, live in a community-property state, and have been married for a long time. Yet the black box algorithm thinks I deserve 20x the credit limit she does. No appeals work." These and other similar claims have triggered a fullblown investigation by the New York State Department of Financial Services. Which of the reviewed techniques in lecture could have been implemented to prevent this embarrassing problem? Model robustness Model debugging Residual analysis Data slicing

That's right! Model debugging tries to improve the transparency of models by highlighting how data is flowing inside and thus can prevent harmful