Grade received 100% To pass 80% or higher

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 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

TensorFlow Metric Analysis (TFMA)

Data Slicing

shortcoming?

Streaming metrics

Apache Beam

✓ Correct

That's right! Slicing deals with understanding how a model is performing on each subset of data.

1 / 1 point

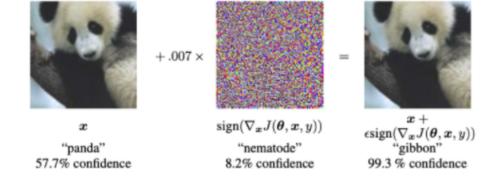
2.	Streaming metrics are approximations to full-pass performance metrics computed on	1 / 1 point
	mini-batches of data	
	Slices of data	
	the full data set	
	the full validation data set.	
	Correct That's right! This is a nice way to approximate the full-pass metrics without incurring a huge computational overhead cost.	

1/1 point

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

harmful social discrimination.

1/1 point



What type of analysis can help us detect and prevent these types of scenarios?

- Sensitivity analysis
- Dimensionality reduction
- Residual Analysis
- Adversarial attack

5.	A performance-metric gap between two or more groups could be a sign that an ML model may have unfair skews. Therefore, is achieving performance equality (on fairness indicators) across groups a definite sign that a model is fair?	1/1 point
	○ Yes	
	No	
	Correct That's right! Systems are highly complex and achieving equality on one, or even all of the provided metrics can't guarantee fairness. Fairness evaluations should be run throughout the development process and post-launch as well.	
6.	After a model has been deployed, is it usually feasible to perform residual analysis? No	1 / 1 point
	○ Yes	
	Correct That's right! Once your model is deployed, you may not have a good amount of labeled data and consequently, residual analysis can prove to be a costly exercise as it might include you hiring workers to label your incoming test data.	