**Grade received 100%** To pass 80% or higher

- **1.** What formula represents a *dataset shift?* 
  - $\bullet$   $P_{train}(y,x) \neq P_{serve}(y,x)$
  - $\bigcap P_{train}(y|x) \neq P_{serve}(y|x)$  and  $P_{train}(x) = P_{serve}(x)$
  - $\bigcap P_{train}(y|x) = P_{serve}(y|x)$  and  $P_{train}(x) \neq P_{serve}(x)$

(√) Correct Well done! The most generic case of distribution skews is when the joint distribution of inputs and outputs differs between training and serving. 1/1 point

Go to next item

That's it! Chebyshev distance is defined as  $\max(|x_i-y_i|)$ 

4.	TensorFlow Data Validation (TFDV) helps TFX users maintain the health of their ML pipelines. TFDV can analyze training and serves data to:	1 / 1 point
	Perform feature engineering.	
	✓ Infer a schema.	
	Correct  Nice going! In short, schemas describe the expectations for "correct" data and can thus be used to detect errors in the data.	
	Perform feature selection.	
	Deploy pipeline to a mobile application.	
	Detect data anomalies.	
	Correct  That's the way! TFDV can check your data for error in the aggregate across an entire dataset or by checking for errors on a per-example basis.	
	Compute descriptive statistics.	
	Correct Perfect! TFDV goes beyond computing relevant statistics, it also has nice browser-based visualization tools.	