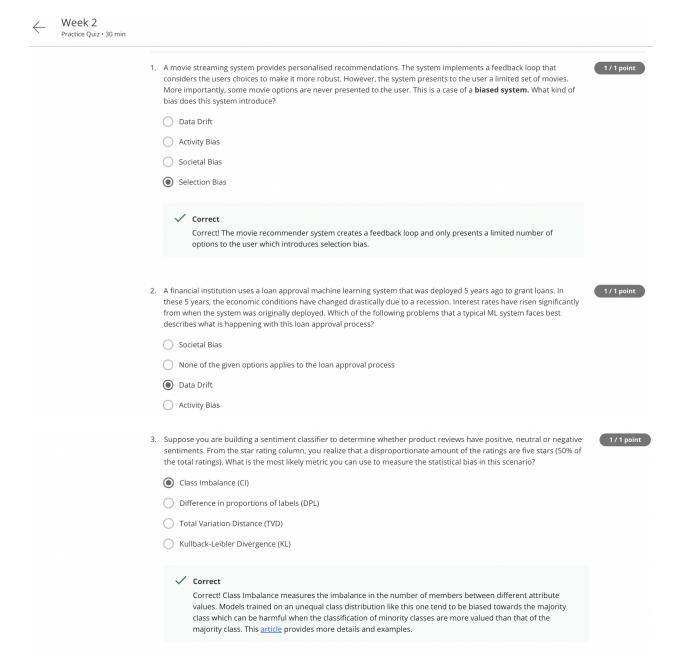
Practical Data Science Specialization



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contains daily sales data from January 2020 to September 2020. You successfully train your model on this data, but the actual sales measured in December are completely different from what your model predicted. These types of events are called data drift.	17 I point
After some research, you realize that this change occurred because there is always a sharp increase in sales due to the holiday season.	
What specific kind of data drift best describes this change in sales?	
O Covariate shift	
Prior probability shift	
○ Concept jump	
None of the above	
✓ Correct	
Correct! A prior probability shift occurs when there is a shift in the target variable.	
5. Properly measuring statistical data bias is key to build fair and successful ML models. Select the most appropriate metric to detect an imbalance of positive outcomes between different facet values.	1/1 point
O Total Variation Distance (TVD)	
Kullback-Leibler Divergence (KL)	
Class Imbalance(CI)	
Difference in proportions of labels (DPL)	
You are tasked with creating a model that predicts the popularity of a new pair of socks. You suspect the presence of statistical bias in your dataset due to the product category.	1 / 1 point
Which of the following tools from the AWS toolkit best provides the ability to detect statistical bias in the dataset?	
AWS Glue	
○ Amazon Athena	
Amazon SageMaker Clarify	
All of the above	
 Correct Correct! Amazon SageMaker Clarify can be used to identify statistical bias during data preparation without having to write your own code. 	
7. Feature importance refers to a metric that assigns a score to input features based on how useful they are at predicting a target variable.	1 / 1 point
True or false: applying feature importance always improves model performance.	
○ True	
False	