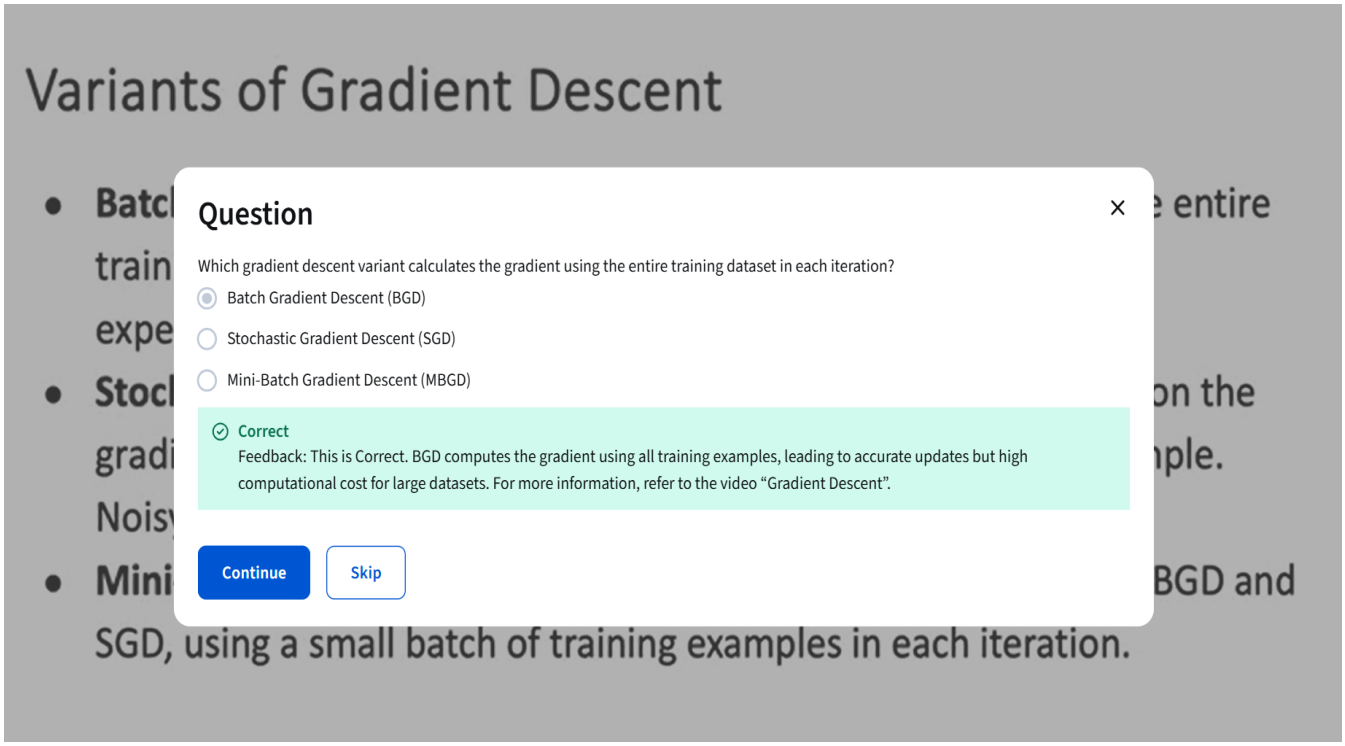
Variants of Gradient Descent
Batch
entire
train
expe
Stoch
on the
grad
mple.
Nois
Mini
BGD and
SGD, using a small batch of training examples in each iteration.
Question
Which gradient descent variant calculates the gradient using the entire training dataset in each iteration?
Batch Gradient Descent (BGD)
Stochastic Gradient Descent (SGD)
Mini-Batch Gradient Descent (MBGD)
Correct
Feedback: This is Correct. BGD computes the gradient using all training examples, leading to accurate updates but high computational cost for large datasets. For more information, refer to the video “Gradient Descent”.
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