

Question: According to the text, which of the following is defined as a value that the model calculates during training?

- A) Learning rate
- B) Batch size
- C) Weights
- D) Epochs

Correct Answer: C

Question: What is the consequence if the learning rate is set too high during training?

- A) The model converges very slowly.
- B) The model never converges, but instead bounces around the weights and bias that minimize the loss.
- C) The model automatically switches to full-batch gradient descent.
- D) The model converges quickly but becomes extremely noisy.

Correct Answer: B

Question: What characterizes Stochastic Gradient Descent (SGD) regarding batch size?

- A) It uses the entire training dataset (full batch) per iteration.
- B) It uses only a single example (a batch size of one) per iteration.
- C) It averages gradients from a batch size greater than 1 but less than N data points.
- D) It only updates weights and bias after the completion of an entire epoch.

Correct Answer: B

Question: In the context of model training, what does one "epoch" represent?

- A) The number of iterations required to update the parameters once.
- B) The total number of model parameter updates performed during the entire training process.
- C) The time it takes for the Mean Squared Error (MSE) to converge to a lower value.
- D) The model having processed every example in the training set once.

Correct Answer: D

Question: Which performance metric is also known as the True Positive Rate (TPR) and measures the proportion of all actual positives that were classified correctly?

- A) Specificity
- B) Accuracy
- C) Precision
- D) Recall

Correct Answer: D