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QUESTION 1

You are an ML engineer in the contact center of a large enterprise. You need to build a sentiment analysis tool that predicts customer sentiment from recorded phone conversations. You need to identify the best approach to building a model while ensuring that the gender, age, and cultural differences of the customers who called the contact center do not impact any stage of the model development pipeline and results. What should you do?

- A. Convert the speech to text and extract sentiments based on the sentences.
- B. Convert the speech to text and build a model based on the words.
- C. Extract sentiment directly from the voice recordings.
- D. Convert the speech to text and extract sentiment using syntactical analysis.

Correct Answer: A

QUESTION 2

You work for a global footwear retailer and need to predict when an item will be out of stock based on historical inventory data. Customer behavior is highly dynamic since footwear demand is influenced by many different factors. You want to serve models that are trained on all available data, but track your performance on specific subsets of data before pushing to production. What is the most streamlined and reliable way to perform this validation?

- A. Use the TFX ModelValidator tools to specify performance metrics for production readiness.
- B. Use k-fold cross-validation as a validation strategy to ensure that your model is ready for production.
- C. Use the last relevant week of data as a validation set to ensure that your model is performing accurately on current data.
- D. Use the entire dataset and treat the area under the receiver operating characteristics curve (AUC ROC) as the main metric.

Correct Answer: C

<https://cloud.google.com/learn/what-is-time-series>

QUESTION 3

During batch training of a neural network, you notice that there is an oscillation in the loss. How should you adjust your model to ensure that it converges?

- A. Decrease the size of the training batch.
- B. Decrease the learning rate hyperparameter.
- C. Increase the learning rate hyperparameter.
- D. Increase the size of the training batch.

Correct Answer: B

<https://ai.stackexchange.com/questions/14079/what-could-an-oscillating-training-loss-curve-represent#:~:text=Try%20lowering%20the%20learning%20rate,step%20and%20overshoot%20it%20again.>

QUESTION 4

Your company manages a video sharing website where users can watch and upload videos. You need to create an ML model to predict which newly uploaded videos will be the most popular so that those videos can be prioritized on your company's website. Which result should you use to determine whether the model is successful?

- A. The model predicts videos as popular if the user who uploads them has over 10,000 likes.
- B. The model predicts 97.5% of the most popular clickbait videos measured by number of clicks.
- C. The model predicts 95% of the most popular videos measured by watch time within 30 days of being uploaded.
- D. The Pearson correlation coefficient between the log-transformed number of views after 7 days and 30 days after publication is equal to 0.

Correct Answer: C

QUESTION 5

You started working on a classification problem with time series data and achieved an area under the receiver operating characteristic curve (AUC ROC) value of 99% for training data after just a few experiments. You haven't explored using any sophisticated algorithms or spent any time on hyperparameter tuning. What should your next step be to identify and fix the problem?

- A. Address the model overfitting by using a less complex algorithm.
- B. Address data leakage by applying nested cross-validation during model training.
- C. Address data leakage by removing features highly correlated with the target value.
- D. Address the model overfitting by tuning the hyperparameters to reduce the AUC ROC value.

Correct Answer: B

<https://towardsdatascience.com/time-series-nested-cross-validation-76adba623eb9>

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