

# Let's recap our knowledge on supervised ML!

# What is the purpose of a training dataset in supervised learning?



To test the  
model's  
performance.



To teach the  
model and  
help it learn  
patterns in  
the data.



To evaluate  
the model's  
accuracy.

# What is the purpose of a test dataset in supervised learning?



# What does the term "feature" refer to in machine learning?



The target variable.



A machine learning algorithm.



The input variables or attributes used to make predictions.



# In a bioactivity predictor, the target variable could be...



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The predicted biological activity or response of a small molecule



The chemical structure of the small molecule.



The temperature at which a chemical reaction occurs.

# What does precision measure in binary classification?



The ratio of true positives to all actual positives.



The ratio of true positives to all predicted positives.



The ratio of true negatives to all actual negatives.

# What does recall (sensitivity) measure in binary classification?



The ratio of true positives to all predicted positives.



The ratio of true positives to all actual positives.



The ratio of true negatives to all actual negatives.



# What is overfitting in machine learning?



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When a model performs well on the training data but poorly on unseen data.



When a model performs consistently on both training and testing data.



When a model doesn't learn from the training data.



# What is the purpose of cross-validation in model evaluation?



To increase overfitting.

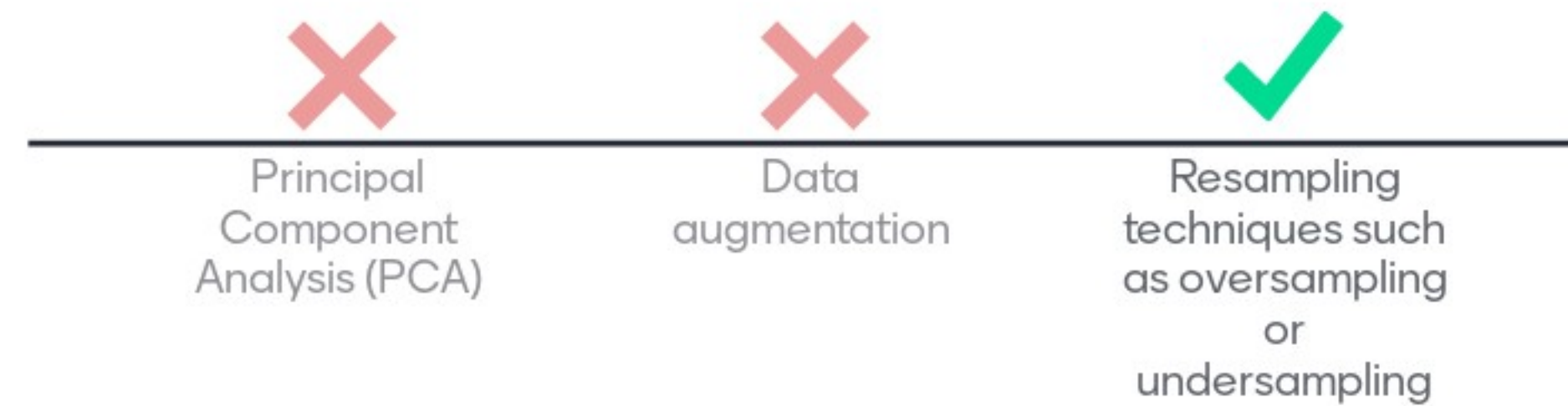


To estimate how well a model will perform on unseen data.



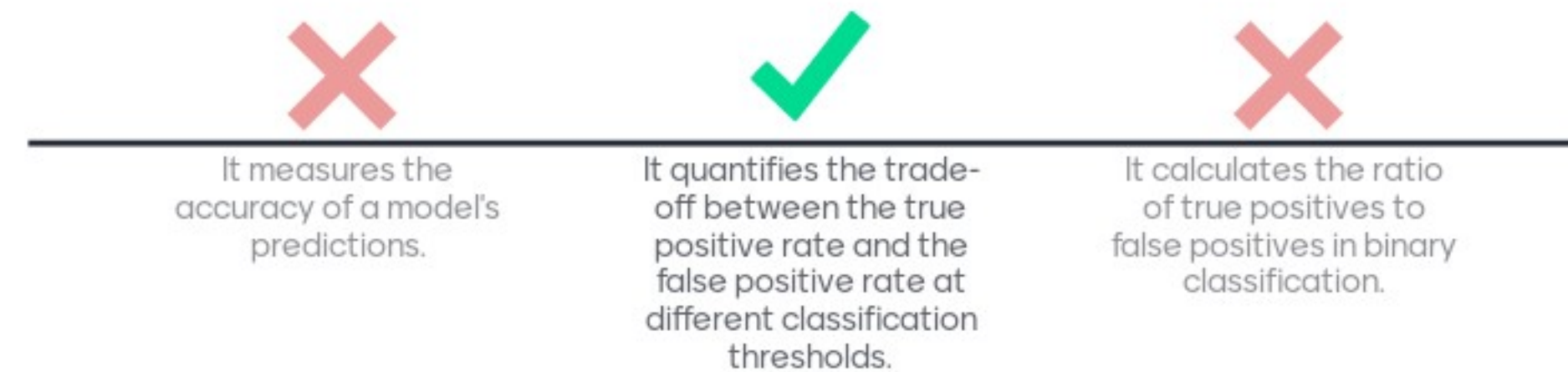
To create multiple training datasets.

# When working with imbalanced datasets, which technique can help address the issue of class imbalance in binary classification?





# What is the ROC-AUC (Receiver Operating Characteristic - Area Under the Curve) score, and how does it relate to binary classifiers?





# Leaderboard

**No results yet**

Top Quiz participants will be displayed here once there are results!