

Dashboard

Courses

PW Skills

Lab

Job Portal Experience Portal Become an

affiliate

Hall of

Fame

Aditya



Machine Learning quiz

7 out of 7 correct

l. Wh	at is overfitting in machine learning?
	When the model fits the training data too well and performs poorly on new data
\bigcirc	When the model fits the training data poorly and performs well on new data
\bigcirc	When the model performs equally well on training and new data
\bigcirc	None of the above
to fit t	nation: Overfitting occurs when a machine learning model is too complex and tries ne noise or random fluctuations in the training data. As a result, it performs very well training data but poorly on new or unseen data.
2. Wh	nat is underfitting in machine learning?
\bigcirc	When the model fits the training data too well and performs poorly on new data
	When the model fits the training data poorly and performs well on new data
\bigcirc	When the model performs equally well on training and new data
\bigcirc	None of the above
captu	nation: Underfitting occurs when a machine learning model is too simple and cannot re the underlying patterns in the training data. As a result, it performs poorly on the ag data and also on new or unseen data.
3. W	nat is the difference between overfitting and underfitting?
	Overfitting occurs when the model fits the training data too well, while underfitting occurs when the model fits the training data poorly

Overfitting occurs when the model fits the training data poorly, while underfitting



Overfitting and underfitting are the same thing

occurs when the model fits the training data too well

None of the above		
Explanation: Overfitting and underfitting are two common problems in machine learning. Overfitting occurs when the model is too complex and fits the training data too well, while underfitting occurs when the model is too simple and cannot capture the underlying patterns in the training data.		
4. What is bias in machine learning?		
The difference between the predicted values and the actual values		
The tendency of the model to make systematic errors		
The tendency of the model to make random errors		
None of the above		
Explanation: Bias is the tendency of a machine learning model to make systematic errors, even when trained on large amounts of data. A model with high bias may underfit the data, while a model with low bias may overfit the data.		
5. What is variance in machine learning?		
The difference between the predicted values and the actual values		
The tendency of the model to make systematic errors		
The tendency of the model to make random errors		
None of the above		
Explanation: Variance is the tendency of a machine learning model to make random errors or noise, even when trained on large amounts of data. A model with high variance may overfit the data, while a model with low variance may underfit the data.		
6. A machine learning model is trained on a dataset of 1000 images of cats and dogs. The model achieves 95% accuracy on the training set, but only 75% accuracy on a validation set of 500 images. What is the most likely problem with the model?		
Overfitting		
Underfitting		
High bias		
High variance		

Explanation: The model has achieved high accuracy on the training set, but lower accuracy on the validation set, indicating that it has overfit the training data and is not generalizing well to new data.

7. A machine learning model is trained on a dataset of 1000 images of cats and dogs. The

model achieves 90% accuracy on the training set and 85% accuracy on a validation set of 500 images. What is the most likely problem with the model?		
\bigcirc	Overfitting	
\bigcirc	Underfitting	
\bigcirc	High bias	
	High variance	

Explanation: The model has achieved high accuracy on the training set, but lower accuracy on the validation set, indicating that it may be too complex and is fitting noise or random fluctuations in the training data.

Submit