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Hall Aditya



Machine Learning quiz

6 out of 6 correct

of

Fame

What is the key difference between Artificial Intelligence (AI) and Machine Learning (ML)?	
\bigcirc	Al is a subset of ML
	ML is a subset of AI
\bigcirc	Al and ML are the same thing
\bigcirc	Al and ML are completely unrelated
Explanation: All is the broad field of creating intelligent machines, while ML is one of the techniques used within All to train machines to learn from data and make predictions.	
2. Wh	nich type of learning requires labeled data for training?
	Supervised Learning
\bigcirc	Unsupervised Learning
\bigcirc	Semi-Supervised Learning
\bigcirc	Reinforcement Learning
Explanation: In supervised learning, the machine is provided with labeled data during training to learn patterns and relationships between inputs and outputs.	
3. Wh	ich type of learning does not require labeled data for training?
\bigcirc	Supervised Learning
	Unsupervised Learning
\bigcirc	Semi-Supervised Learning

Reinforcement Learning

4. Which type of learning uses both labeled and unlabeled data for training? Supervised Learning **Unsupervised Learning** Semi-Supervised Learning Reinforcement Learning Explanation: In semi-supervised learning, a small amount of labeled data is used along with a large amount of unlabeled data to train the machine. 5. What is the purpose of the validation set in machine learning? To train the machine learning model To test the machine learning model To evaluate the machine learning model's performance during training To evaluate the machine learning model's performance on new, unseen data Explanation: The validation set is used during the training process to evaluate the performance of the machine learning model on data that it has not seen before. 6. What is the purpose of the test set in machine learning? To train the machine learning model To validate the machine learning model To evaluate the machine learning model's performance during training To evaluate the machine learning model's performance on new, unseen data

Explanation: In unsupervised learning, the machine is not provided with labeled data.

Instead, it must find patterns and relationships within the data on its own.

Explanation: The test set is used after the machine learning model has been trained to evaluate its performance on data that it has never seen before, which is a critical step in determining the effectiveness of the model.

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