AI Course

Chapter 6. Quiz

For students

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1. Which of the following statements about learning is incorrect?
2. Supervised learning uses both input data and learning data given a result, but unsupervised learning is used in the form of learning using only input data without learning data.
3. Unsupervised learning can be said to be a learning method that informs the problem but does not tell the answer.
4. As an unsupervised learning algorithm, hierarchical clustering analysis and K-means clustering can be used for clustering.
5. K-means clustering has the advantage of being easy to determine the initial number of clusters and easy to interpret the results.
6. Which of the following statements about clustering is incorrect?
7. The most commonly used clustering technique is K-Means.
8. Hierarchical Clustering is decided after clustering without determining the number of groups.
9. The algorithm of hierarchical clustering has K-Medoids.
10. Clustering is a technique that allocates and analyzes groups based on the similarity or dissimilarity between each entity.
11. The EM algorithm belongs to the greedy algorithm. Please explain the reason.
12. Write three or more examples of clustering algorithm. (ex. Data analysis)
13. Explain about the two methods of choosing the optimal number of clusters when using k-means. Describe how to find the optimal number of clusters using the two methods.