SVM and Grid Search Test Paper - 20 Questions with Answers (20 mins)



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Question 1   
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Q1. What is a Support Vector Machine (SVM)? """

Answer:

Question 2   
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Q2. How does SVM differ from logistic regression? """

Answer:

Question 3   
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Q3. What is a hyperplane in the context of SVM? """

Answer:

Question 4   
"""

Q4. Define margin in SVM.   
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Answer:

Question 5

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Q5. What is the kernel trick in SVM, and why is it useful? """

Answer:

Question 6

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Q6. List four common types of kernels used in SVM. """

Answer:

Question 7

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Q7. Explain the concept of soft margin in SVM. """

Answer:

Question 8

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Q8. What is the role of the C parameter in SVM? """

Answer:

Question 9

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Q9. How does the Radial Basis Function (RBF) kernel work? """

Answer:   
Question 10   
"""

Q10. Define Grid Search.

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Answer:   
Question 11   
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Q11. Why is cross-validation used with Grid Search? """

Answer:   
Question 12   
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Q12. What is GridSearchCV in Scikit-Learn? """

Answer:   
Question 13   
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Q13. What are the types of machine learning algorithms? """

Answer:

Question 14

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Q14. How is C parameter related to the soft marging in svm? """

Answer:

Question 15

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Q15. What is the purpose of the cv parameter in GridSearchCV? """

Answer:

Question 16

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Q16. What are support vectors in SVM?   
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Answer:

Question 17

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Q17. How would you interpret best\_score\_ from GridSearchCV? """

Answer:

Question 18

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Q18. Give an example of when Grid Search might not be suitable.

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Answer:   
Question 19   
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Q19. Why might SVM not perform well on large datasets? """

Answer:   
Question 20   
"""

Q20. What is Supervised Machine Learning and how is it different from unsupervised machine learning?

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Answer: