

Logistic Regression-2

Assignment Questions



Q1. What is the purpose of grid search cv in machine learning, and how does it work?

Q2. Describe the difference between grid search cv and randomize search cv, and when might you choose one over the other?

Q3. What is data leakage, and why is it a problem in machine learning? Provide an example.

Q4. How can you prevent data leakage when building a machine learning model?

Q5. What is a confusion matrix, and what does it tell you about the performance of a classification model?

Q6. Explain the difference between precision and recall in the context of a confusion matrix.

Q7. How can you interpret a confusion matrix to determine which types of errors your model is making?

Q8. What are some common metrics that can be derived from a confusion matrix, and how are they calculated?

Q9. What is the relationship between the accuracy of a model and the values in its confusion matrix?

Q10. How can you use a confusion matrix to identify potential biases or limitations in your machine learning model?

Note: Create your assignment in Jupyter notebook and upload it to GitHub & share that github repository link through your dashboard. Make sure the repository is public.