Logistic Regression Questions

1. What is Logistic Regression and how is it different from Linear Regression?

2. Explain the mathematical formulation of Logistic Regression.

3. What is the cost function used in Logistic Regression and why can’t we use mean squared error?

4. How do we interpret the coefficients of a Logistic Regression model?

5. What is the significance of the sigmoid function in Logistic Regression?

6. How does regularization work in Logistic Regression? Explain L1 (Lasso) and L2 (Ridge) regularization.

7. What are some methods to handle imbalanced datasets when using Logistic Regression?

8. How does Logistic Regression handle multicollinearity?

9. What are the assumptions made by Logistic Regression?

10. How can you evaluate the performance of a Logistic Regression model?