MACHINE LEARNING Worksheet-6

1. A
2. B
3. C
4. A
5. B
6. A,D
7. A,C
8. A,C
9. B
10. The adjusted R-squared compensates for the addition of variables and It only increases if the new predictor enhances the model above what would be obtained by probability.
11. While lasso regression takes the magnitude of the coefficients, ridge regression takes the square.
12. Variance inflation factor (VIF) is a measure of the amount of multicollinearity in a set of multiple regression variables .Any VIF below 3 is supposedly good.
13. We need to scale the data so that the machine can interpret the values correctly. If some values are in decimals and few in thousands etc it’s difficult for the machine to interpret and a wrong conclusion can be given. Hence scaling is important.
14. Accuracy, confusion matrix etc are some of the different metrics which are used to check the goodness of fit in linear regression.
15. Sensitivity/Recall= 0.8, Accuracy =0.88, Precision =0.95. , specificity =0.83