Machine Learning Assignment

Q.**1. A**

Q.2. A

Q.3. B

Q.4. C

Q.5. C

Q.6. B

Q.7. D

Q.8. A

Q.9. A

Q.10. A

Q.11. B

Q.12. B & C

Q.13. Explain the term regularization.

Ans : While training a Machine Learning model, the model can easily be overfitted or under fitted. To avoid this we use regularization in machine learning to properly fit a model onto our test set. Regularization techniques helps to reduce the chance of overfitting and help us get an optional model.

Q.14. Which particular algorithms are used for regularization?

Ans. The following algorithms can be used for regularization

1. Ridge Regression
2. Lasso(Least Absolute Shrinkage and Selection Operator) Regression
3. Elastic-Net Regression

Q.15. Explain the term Error present in Linear Regression equation.

Ans. An error term is a residual variable produced by a statistical or mathematical model, which is created when the model does not fully represents the actual relationship between the independent and dependent variables. It is the difference between the expected value at particular point and the value that was actually observed.