MACHINE LEARNING WORKSHEET_3

In Q1 to Q8, only one option is correct, Choose the correct option:

Answers:-

1) B
2) A
3) B
4) B
5) D
6) D
7) C
8) A

In Q9 to Q13, more than one options are correct, Choose all the correct options:-

9) B,D
10) A,D
11) A,B,D
12) A,B,C
13) A,B

Q14 and Q15 are subjective answer type questions, Answer them briefly:-

14) Linear regression analysis is used to predict the value of a variable based on the value of another variable. The variable you want to predict is called the dependent variable. The variable you are using to predict the other variable's value is called the independent variable.

This form of analysis estimates the coefficients of the linear equation, involving one or more independent variables that best predict the value of the dependent variable. Linear regression fits a straight line or surface that minimizes the discrepancies between predicted and actual output values. There are simple linear regression calculators that use a “least squares” method to discover the best-fit line for a set of paired data. You then estimate the value of X (dependent variable) from Y (independent variable

15) Regression analysis is a common statistical method used in finance and investing. Linear regression is one of the most common techniques of regression analysis. Multiple regression is a broader class of regressions that encompasses linear and nonlinear regressions with multiple explanatory variables.

Regression as a tool helps pool data together to help people and companies make informed decisions. There are different variables at play in regression, including a dependent variable—the main variable that you're trying to understand—and an independent variable—factors that may have an impact on the dependent variable.