**MACHINE LEARNING – WORKSHEET 8 (REGRESSION)**

1. X represents the set of all predictors (X1, X2, X3...) and Y represents a continuous response variable. Then in regression, we try to find a function f such that

Y=f(X)+Є

Where Є is random error term

Which of the following terms are true regarding the Є term?

Answer: A&C

2. What does this error term Є account for?

Answer: A&C

3. X represents the set of all predictors (X1, X2, X3...) and Y represents a continuous response variable. Then in regression, we try to find a function f such that

Y=f(X)+Є

Where Є is random error term

Which of the following is true regarding the random error Є?

Answer: C

4. In which of the following scenarios we can use regression technique?

Answer: A&B

5. X represents the set of all predictors (X1, X2, X3...) and Y represents a continuous response variable. Then in regression, we try to find a function f such that

Y=f(X)+Є

Where Є is random error term

Answer: D

6. Which of the following methods is most commonly used for fitting a curve to data?

Answer: B&C

7. Consider the following image and answer the following question?

Which of the following functions should be used here for regression?

y1= response variable

x1= predictor variable

Answer:C

8. Consider the following image and answer the following question?

Choose the functions is best suited here for regression?

Answer: A

9. Consider the following image and answer the following question?

which of the following is true regarding the Pearson correlation coefficient P?

Answer: C

10. Consider the following image and answer the question:

Which of the following is true regarding the data in above picture?

Answer: B