

STATISTICS WORKSHEET -1

1. A) True
 2. A) Central Limit Theorem
 3. B) Modelling Bounded Count Data
 4. D) All of the mentioned
 5. C) Poisson
 6. B) False
 7. B) Hypothesis
 8. A) 0
 9. C) Outliners can conform to the regression relationship
10. **Normal Distribution** – Normal distribution is also called Gaussian Distribution. In Normal Distribution, every event is independent from one another. The Mean, Median and the Mode in Normal Distribution, is all line up such that the centre of distribution is mean because of which exactly half of the results fall to either side of the mean. The normal distribution is also identifiable by its bell shape and may sometimes be referred to as a bell curve.
11. Missing data appear when no value is available in one or more variables of individual. Due to missing data, the statistical power of the analysis can reduce ,which can impact the validity of result.
- Missing data can be handled using Imputation. Recommended Imputation techniques are : a)Average Imputation b) Common Point Imputation
12. A/B testing is a popular way to test your products and is gaining steam in the data science field.
13. Mean Imputation is not at all an acceptable practice since it ignores feature correlation.
14. Linear regression is used to predict the value of a variable based on the value of another variable. The variable we predict is the Dependent variable and the variable we use to predict is called Independent variable.
15. Branches of statistics are : Data collection , Descriptive statistics and inferential statistics.