Statistics

How to Learn Statistics for Data Science As A Self Starter

> Compiled by:-
>
> > Tungon Dugi Email: tungondugi@gmail.com

Basics Stats

Probability

1. Introduction to Basic Terms

2. Variables

3. Random Variables

4. Population,Sample,Population Mean, Sample Mean

5. Population Distribution, Sample Distribution and Sampling Distribution

6. Mean, Median ,Mode

7. Range

8. Measure Of Dispersion

9. Variance

10. Standard Deviation

11. Gaussian/Normal Distribution

Intermediate Stats

12. Standard Normal Distribution
13. Z score
14. Probability Density Function
15. Cumulative distribution function
16. Hypothesis Testing
17. Many different plotting graphs
18. Kernel Density Estimation
19. Central Limit Theorem
20. Skewness of Data
    - Covariance

- Pearson Correlation Coefficient
- Spearman Rank Correlation Coefficient
- Importance of Correlation
- Hypothesis Testing
- Null Hypothesis
- Alternative Hypothesis
- Understanding Hypothesis testing
- (T-test,Chi square test, p values)

Advanced Stats

21. Q-Q plot
22. Chebyshev's inequality
23. Discrete And Continuous Distribution
24. Bernoulli And Binomial Distribution
25. Log Normal Distribution
26. Power Law Distribution
27. Box Cox Tranform
28. Poisson Disstribution
29. Application Of Non Gaussian Distribution