Statistics

How to Learn Statistics for Data Science As A Self Starter

Basics Stats

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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

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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

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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