

## Revision Questions:

1. What is PDF? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/gaussian-normal-distribution-1/>)
2. What is CDF? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/introduction-to-correlation-and-co-variance-1/>)
3. explain about 1-std-dev, 2-std-dev, 3-std-dev range?
4. What is Symmetric distribution, Skewness and Kurtosis? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/symmetric-distribution-skewness-and-kurtosis/>)
5. How to do Standard normal variate (z) and standardization? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/standard-normal-variate-z-and-standardization/>)
6. What is Kernel density estimation? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/kernel-density-estimation/>)
7. Importance of Sampling distribution & Central Limit theorem (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/sampling-distribution-central-limit-theorem/>)
8. Importance of Q-Q Plot: Is a given random variable Gaussian distributed? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/q-q-plot-how-to-test-if-a-random-variable-is-normally-distributed-or-not/>)
9. What is Uniform Distribution and random number generators (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/uniform-distribution-random-number-generators/>)
10. What Discrete and Continuous Uniform distributions? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/uniform-distribution-and-its-parameters-pdf-and-cdf/>)
11. How to randomly sample data points? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/uniform-distribution-random-number-generators/>)
12. Explain about Bernoulli and Binomial distribution? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/bernoulli-and-binomial-distribution/>)
13. What is Log-normal and power law distribution? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/log-normal-distribution/>)
14. What is Power-law & Pareto distributions: PDF, examples (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/power-law-distribution/>)
15. Explain about Box-Cox/Power transform? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/box-cox-transform/>)
16. What is Co-variance? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/co-variance/>)
17. Importance of Pearson Correlation Coefficient? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/pearson-correlation-coefficient-3/>)
18. Importance Spearman Rank Correlation Coefficient? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/spearman-rank-correlation-coefficient-3/>)
19. Correlation vs Causation? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/correlation-vs-causation-3/>)
20. What is Confidence Intervals? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/confidence-interval-c-i-introduction/>)
21. Confidence Interval vs Point estimate?
22. Explain about Hypothesis testing? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/hypothesis-testing-testing-methodology-null-hypothesis-p-value/>)
23. Define Hypothesis Testing methodology, Null-hypothesis, test-statistic, p-value? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/hypothesis-testing-testing-methodology-null-hypothesis-p-value/>)
24. How to do K-S Test for similarity of two distributions? (<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/k-s-test-for-similarity-of-two-distributions-3/>)