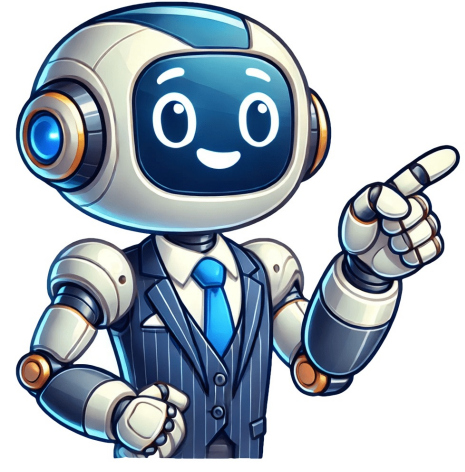


I'm not a robot



[illegible]

with thicker ends, which means more chances for extreme values. The t-distributions shape changes based on something called degrees of freedom, which is a fancy way of talking about your sample size and how many groups you're comparing. Use this when you're looking at the average of a normally distributed group or the difference between two group averages, and you already know the standard deviation for all in the population. The z-test follows the standard normal distribution, which is your classic bell curve centered at zero and spreading out evenly on both sides. This is your go-to for checking if there's a difference in variability within a normally distributed group or if two categories are related. The chi-square statistic follows its own distribution, which leans to the right and gets its shape from the degrees of freedom basically, how many categories or groups you're comparing. This one helps you compare the variability between two groups or see if the averages of more than two groups are all the same, assuming all groups are normally distributed. The F-test follows the F-distribution, which is also right-skewed and has two types of degrees of freedom that depend on how many groups you have and the size of each group. In simple terms, the test you pick hinges on what you're curious about, whether your data fits the normal curve, and if you know certain specifics, like the population's standard deviation. Each test has its own special curve and rules based on your samples details and what you're comparing. Join my community of learners! Subscribe to my newsletter for more tips, tricks, and exclusive content on mastering Data Science & AI. Visit My Gumroad Shop: [br>](#)

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