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Q. Assignment No. 2

Q. What is Bessel's Correction? why n-1 is Sample Variance?

→ Bessel's Correction is the use of 'n-1' instead of 'n' in Sample Variance and Sample SD.

To put it simply (n-1) is a Smaller Number than (n). when we divide by a Smaller Nomber we get a larger Number. Therefore, when we divide by (n-1) the Sample Variance will be larger Number.

If the Sample Variance is larger than there is a greater chance that it captures the true population Variance. That's why when we divide by (n-1) we call that an unbiased Sample estimate, whereas dividing by (n) is called biased Sample estimate.

We are tryjng to reveal / get Some information about the population data by calcolating the Variance from a Sample data where we do not want to underestimate the Variance.

By just dividing (n) we are underestimating the true population Variance.

That's the reason we use 'n-1' in Sample Variance.