DAY OF INTERVIEW QUESTIONS - Confidence Interval, level of significance,
PAY 02 INTERVIEW QUESTIONS - Confidence Interval, level of significance, P-value On the results from
Ans - Confidence Interval tells how much confident we can be the results from a poll of or a survey reflect what we would expect to find if it were possible to survey entire population.
a de de de solver l'effect de la
Confidence Interval can be intrepeted as Confidence levels. For example,
Confidence Interval can be intrepeted as Confidence levels over again. It means if we repeat an experiment/survey over and over again. Is percent of the time own result will match the result we will get from the population.
we will get from the population.
Example - US Bureau rootinely uses confidence in 1995 stated
confidence level of 90%. "Number of people in poverty in
United State is 35 lacs to 37 locs! Means if they repeated the survey using same technique, 90 percent of the time
cesult will fall between 35 lacs to 37 lacs in poverty.
p2) so confidence Interval give data width with Confidence levels? so what are
the factors affect width of Confidence intervals.
) Variation - Variation within population of interest.
- If all the values are in the sample with low
the factors affect width of Confidence intervals. Ans -) Variation and ii) sample size) Variation -> Variation within population of interest. - If all the values are in the sample are same almost similar, then the data have low variation. The data have low variation leads to similar samples with low - Population with low variation leads to similar samples with variation leads to narrow confidence level. Variation leads to varied samples with
variation leads to narrow confidence level. - Population with lots of variation leads to varied samples with
high valuation recordence interval.
Mample Size > Bomple Size also affects will you from each
Though samples are more similar to each other and have more similar to each other and the
other there will be more variation are no samples are more similar to each other and have more lange samples are more similar to each other and have more lange samples are more similar to each other and have more languages. Information which leads to narrow width of confidence intervals.
Information which leads to land 2 = 3 sample mean, to t distribution (18) In together for Confidence Interval 2 = 3 sample stondard deviation Confidence Interval, CI = 3 ± + 5 = 5 sample stondard deviation
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+ > + will give higher range, - lower range

(Alpha) & Significan or level (Alpha) ? Significance level, also denoted as alpha or x, is the probability of rejecting the NOW HYPOTHESIS when it is true. For example, a significance level of 0.05 indicates a 5% risk of concluding of rejecting the null hypothesis. Significance levels shows how likely a pattern in data is due to chances Mostly, no statistical package shows confidence Interval (suppose 0.95 means 95% chance of being true). Instead it will show "0.05", meaning that tinding that five percent (0.05) chances of not being true, which is converse of a 95% of being true. Example - Do you buy Bajaj Fixed Deposit? Type of Vehicle Total State city Can Bike Bus Base 713 / 361 352 247 150 44 160 Yes 428 (60%) 215 (60%) 181 (53%) 74 (19%) 218 (61%) 29 (66%) 131 (79%) No 285 (40%) 146 (40%) 116 (49%) 76 (5%) 15 (84%) 139 (40%) 49 (29%) There is no difference (probably no difference) in purchases of FD in city and state (as city is part of states mostly, other than Union territories) because probability is .91 (i.e, 9% chances difference is true). In contrast, high significance level of type of vehicle (.001 as 99%) indicates there is almost certainly a true difference in purchase of FD by vehicle owners. (5) What is Pralue? Ans - P value is the "probability" for the "NULL HYPOTHESIS" to be "True". Normalbell P value = 0.8, this means, tegion is touched more more used.

Suppose home p value = 0.01. This means, this region is touched.

1 times per 100 times. Example, Create 2 groups of 4 plants each: Group 1 -> A plants -> Ferhlizens A Touchpad Group 27 4 plants - Forhlizers B Null hypothesis there is no difference in effect of feitilizers it and fortilizers B Proluce con take value range from 0 to 1. p-0.01, suggest on out of 100 times, 1 time null hypothesis 19 true! P=0.10, suggest 10 out of 100 times, 10 times NULL'S true. By tests p= 0.08, then 8 out of 100 times, null is true which suggest there will be no difference in effects of fertigue A and B So, what is ophmal P-value? Ans is level of significance.