Daily Assessment Jormat

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course: comsera

Topic: Basic statistics

Githmb jyoti-consses

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Report

Statistical Conclusion validity is the degree to which -h conclusions about the relationship among variables based on the data are correct or "reasonable". This began being solely about wheather the statistical conclusion about the Irelationship of the reasiables was correct, but now there is a movement towards moving to "reasona - ble conclusions that use quantitative, statistical, agnalitative data fundamentally, two types of errors can occur: type I finding a difference or correlation when none exists of type 11 (finding in difference or correlation when one exists) statistical conclusion realidity concerns the qualities of the study that make these types of errors more likely, statistical conclusion realidity involves enversing the use of adequate sampling ofoceduses, appropriate statistical tests, & reliable measurement proceduses.

gower is the probability of correctly rejecting the null hypothesis when it is Jake (inverselog the type II error Love statistical power. rate), experiments neiter low power have a higher probabil lity of incorrectly accepting the null hypothesis. i.e Committing a type 11 error of concluding that there is no effect when there actually is (i.e there is a real Covariation blu tere cause & Affect). Low jower occurs when the cample sixe of the study is too small given when the cample sixe of the study is too small given other factors (small effect sixes) large group vasiability

unschable measures, etc) violated assumptions of the test statistics Most statistical tests (pasticularly injevences about statistice) involve assumptions about the data texat make the analysis snitable got testing a hypothesis. violating the assumptions of statistical thits can lead to fineorrect ingerences about the cause-effect relationship the sobustness of a Test indicates mon sensitive it is to violations. violations of assumptions may make test most on less that the test make the -ns may make tests more or less likely to make type! or 11 essous. each hypothesis test involves a set risk of a type Dredging & the error rate problem lerror (the alpha rate). if a resembler scarches or "dreges" tesongh their data, testing many different hypothesis to find a significant effect, they are ingle-ating their type I error rate the more the researcher repeatedly tests the data, the higher the chance of observing a type I every a making her the chance of observing a type I error & making an incorrect ingerence about the existence of a relationship. If the dependent and or independent vasiables are not measured reliably lie with large amounts of measurement error), incorrect conclusions can be measurement error), incorrect conclusions CALL TO THE PARTY OF THE PARTY Scanned with CamScanner