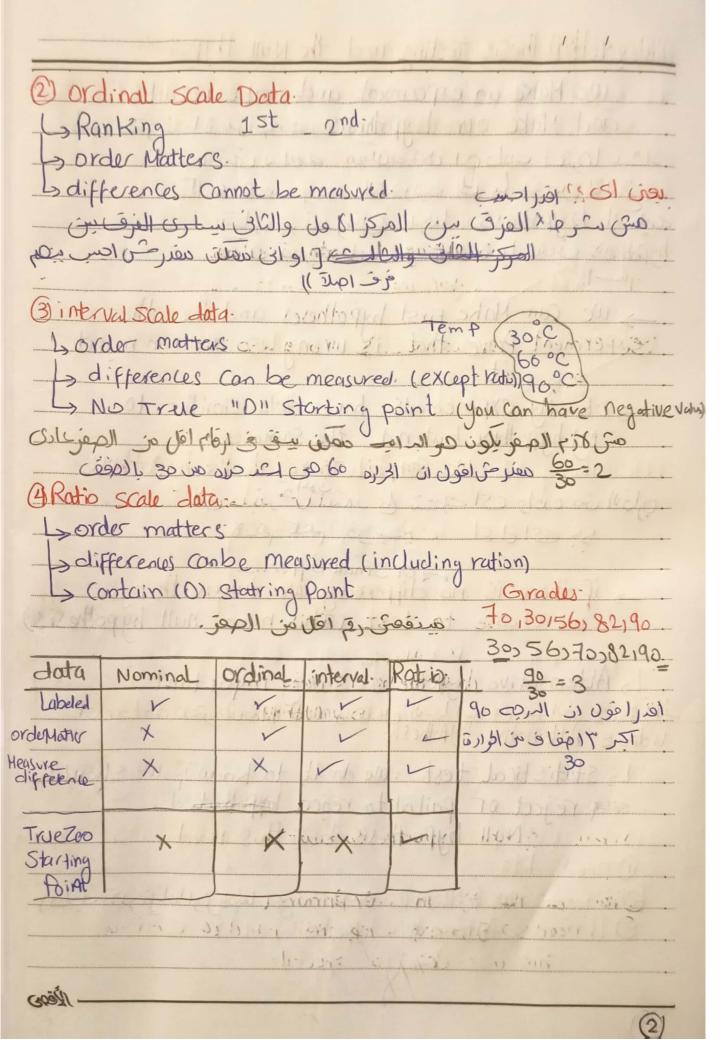
Video 1. Thave Summerize it before Samplil 1 Video 2. Qualitative and Quantatitutive III Qualitative Quantiture (Numbers) 15 Numerical data (two types) a-discrete data. (Counting) (it con't be Front number) b-Continuous (measurment) (it doesn't have to be integer number Uso i alpus (3) discrete gai lan usu aslossi ~ بای حادد ستفاس ((زی مثلا صافح سربه مزن» mest is the little of 12) Qualitative: Ladescreption data based on observation (words) it involves 5 senses. copy objected prison (See -feel- Taste-hear-Smell) الله مصنى Some examples= 1) 7 dogs : discrete quantited we vou (Seeing) @ Block : qualitative (measury 3) GFt tall: continuous quantitative height & Rough cat fur is soft. qualitative Video 3. Scales of measurments. (Nominal: Qualitathre (Categorical) Names _ Colors_ labels_ Grender order doesn't Motter > We can use it in calculation. by doing a survery like we ask people about Their Favourte colour we take the percentages and use in calculation The cast 10 leto comed vary to lunival & 18 19

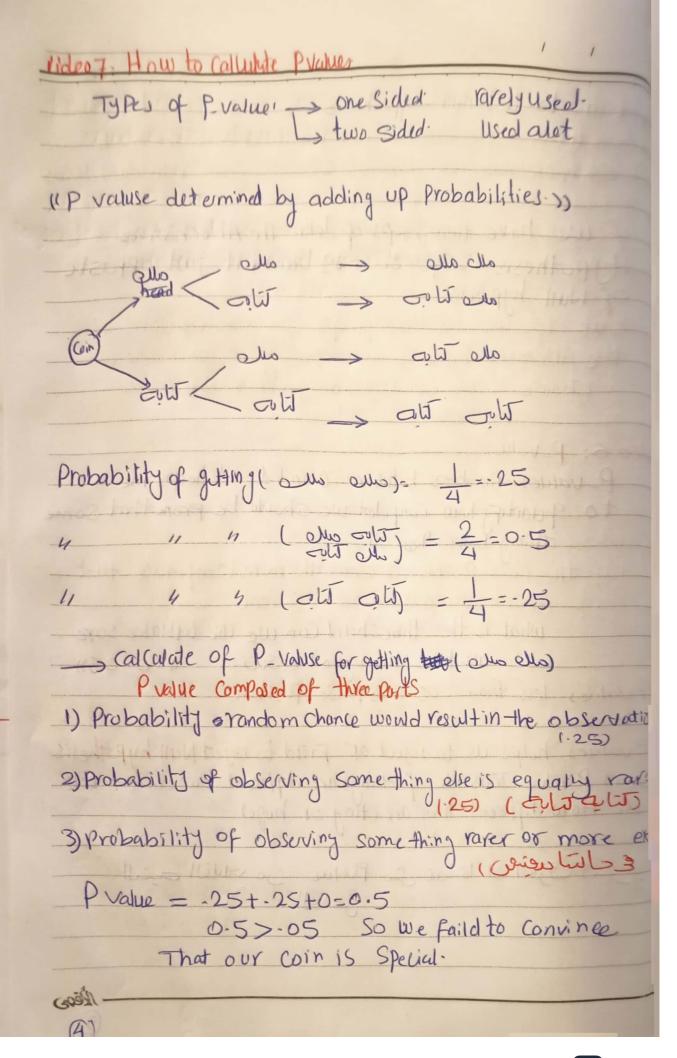




Video 4: HYPothesis Testing and the Null Hypothesis we Make an experiment and Take results and Make our hypothesis - ipijosib jih se ice bis colos openios am cir cieti The aign piene theres to a read will and hypothesis leave cin não én lão hypothes's cirio los average. istinos ilos · 1 > We can Make First hypotheses and the other experment Prove that is wrong so we can reject -> OR My experiements have data similar to my hypothese but not the same so We amfail to rejet the hypothesis لاني ميفر في الميم على شعب اى واوره من التحاري لانع تلقم فرسين اعلاى ي if there is no differency we tween things we choose to test (This mean null hypothesis Ly Alternative hypothesis is very important الدفاعه عن من التباه و معمل الدبا والمعمون الدبا المعموم null hypathorise معمور الدبا المعموم null hypathorise معمور المعموم Lo statistical test : We do it to know if we should reject or failed to reject hypothetical Nall hypothesis but this need. 1) needs data (dit needs null hy Pothesis or Primary (lips jul leligi , vai colo) 1) It needs Alternative hypothesis

La How to test null hypothesis: A calculate distance between each observation and the mean. compare those to distances calculated from individual Hears if we have two groups of data. The Alternative Hypothesis is super obvious because it just opposte of Null hypothesis but if we have More groups we have options of the Alternative hypothesis and depending on which one we choose it we can reject or failed to reject the Viole o 6: P. value P values: numbers between o and 1 it helps me to quantify how confident we should be from that some thing better than other the closer P value to zero the more confidence that things in experiement are different what is the thereshold can we use to Make Sure We take Make a good de Secion. P Values less than . 05 - False Positive > Evalues helps us to reject or Faild to reject Null hypothesis > Small P Value Tells Me if things are different but didn't tell. He How different they are (tiny or huge) el o Julie o Prajue o sulla cial - 0- Call-0. + 30 - 511 5V





what about getting four heads and I Tail so ways to get 3H and > 5 ways to gd 1 Hand. PValue = Probability of gotes. 4T and 1H > 1 way to get 5 Has. > 1 way to get probability of 5 H + Probability 5T) in two sided no ot My Coin. in not special. one Sided Plane: (dangerus) in some condition it connot tell that My dry doing Something unnormal. Video 8: Confidence intervals Ex: we wont to know the mean weight of female mice 12 we choose random 12 Female Mice to weight Calculate mean of the random sample. Refeat Dand @ auntill we calculated a lot of Random means 95-1. Percent of interval. :com les lacas why they are useful: confidence of intall=95001 - Jos show al معنا ما ان عن اللي مش مت ما من دون احت Produce - 05 01 leplies 451- 8/15/

Video 9 - Regression analysis
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technique that helps to analyse relationships between variables to underestand the world.
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