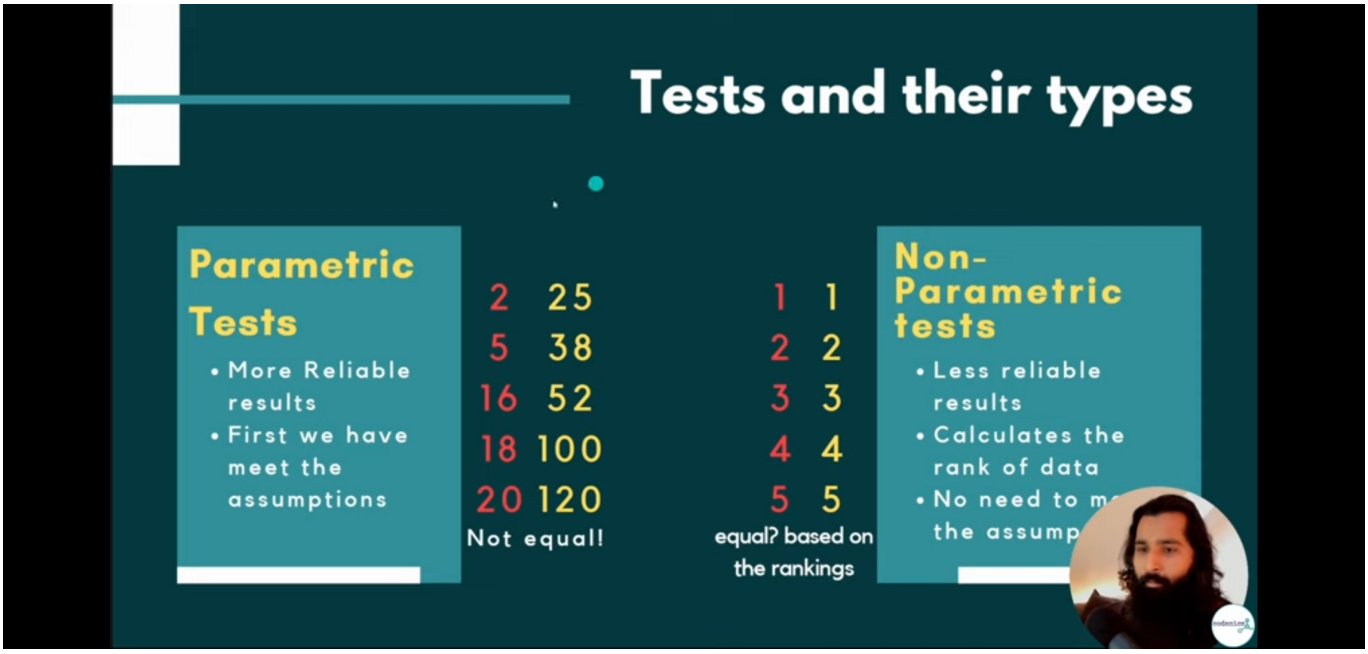
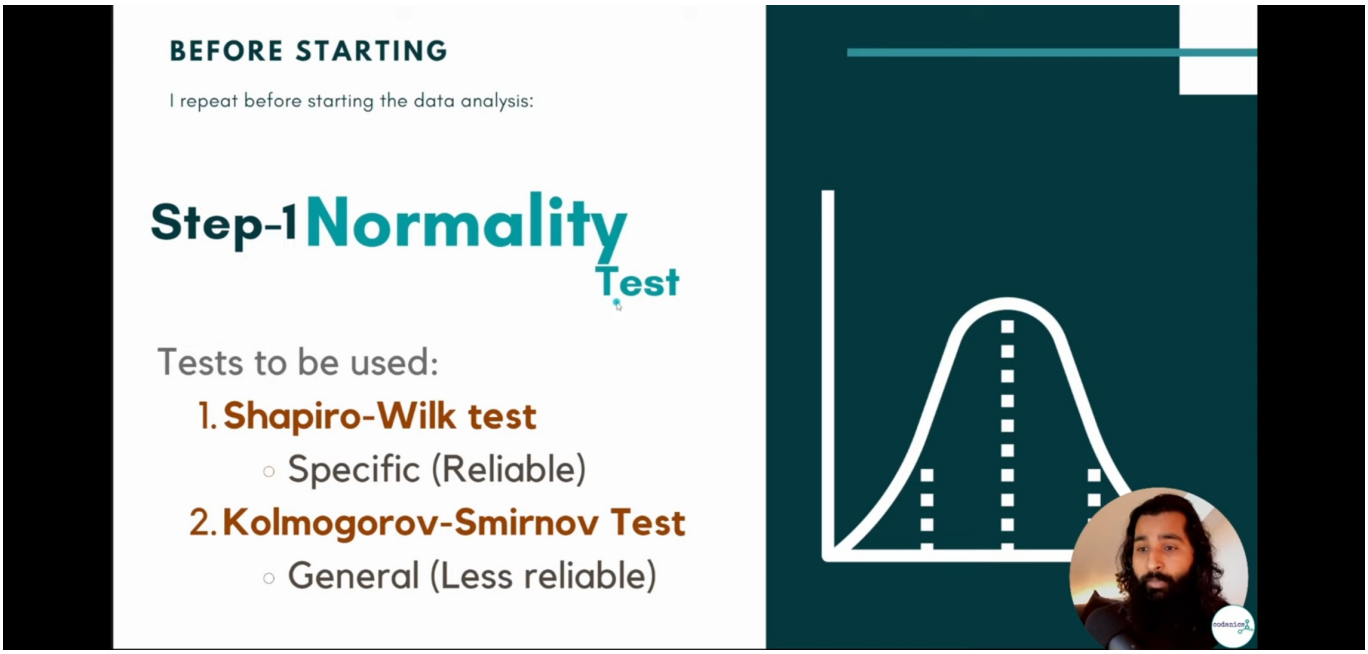
Test and their types

Parametric test and Non-parametric test

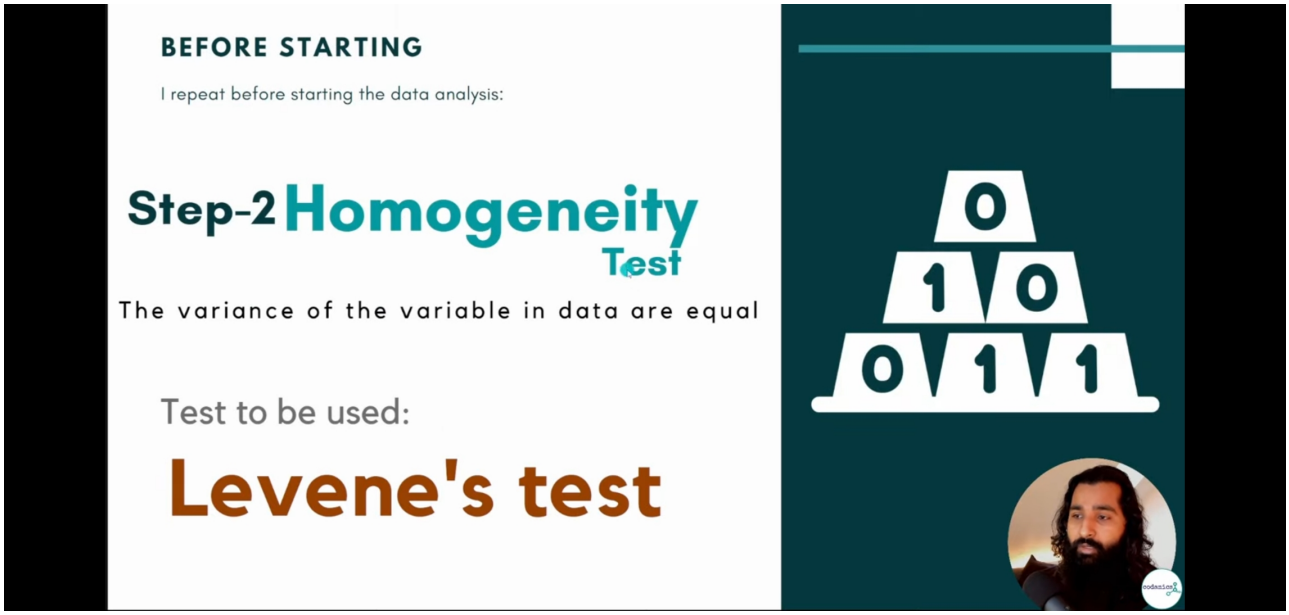


Step-1 Normality test



Step-2 Homogenity Test

- we will do levene test



Step-3 Purpose

- purpose of our research question

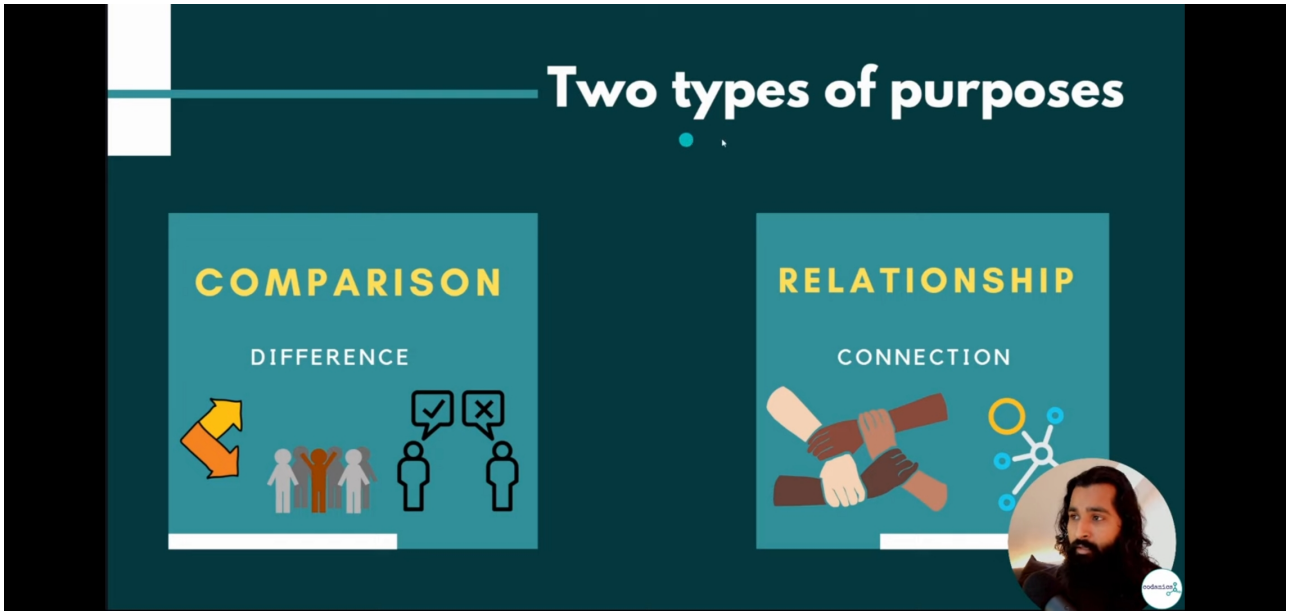
Step-3 Purpose

- purpose of our research question
- Two types of purposes

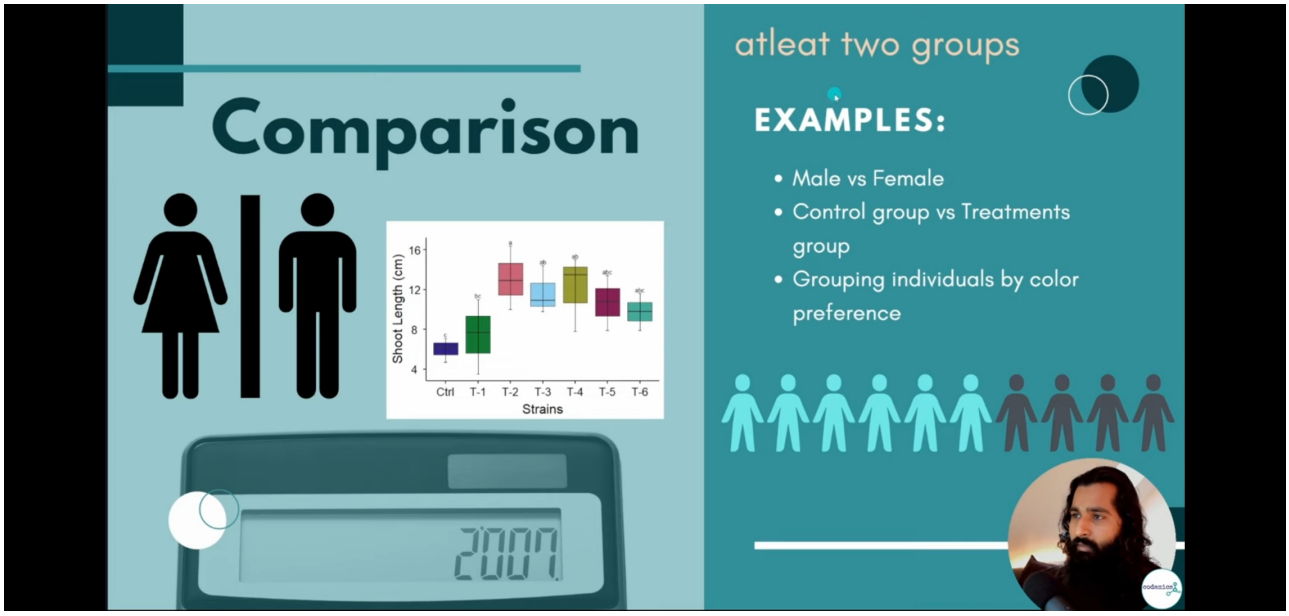
- 

comparision and relationship

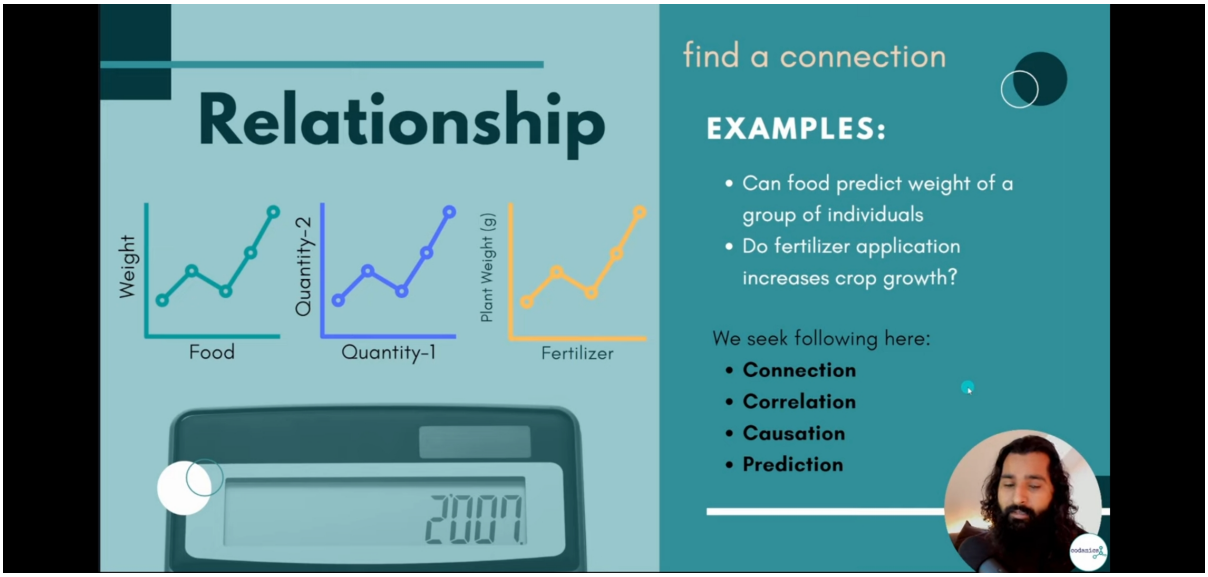
- samosa example



- if comparision must be atleast 2 groups

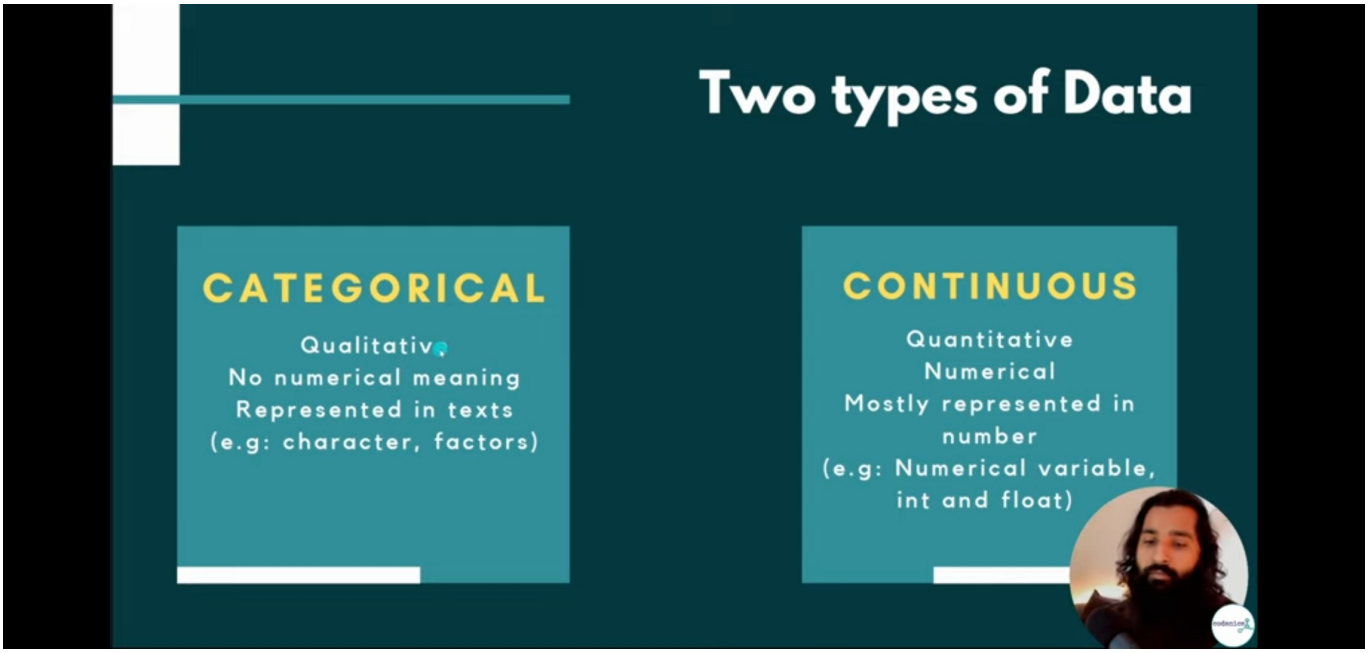


- if relationship must be connection between them
    - it is corelation or relationship

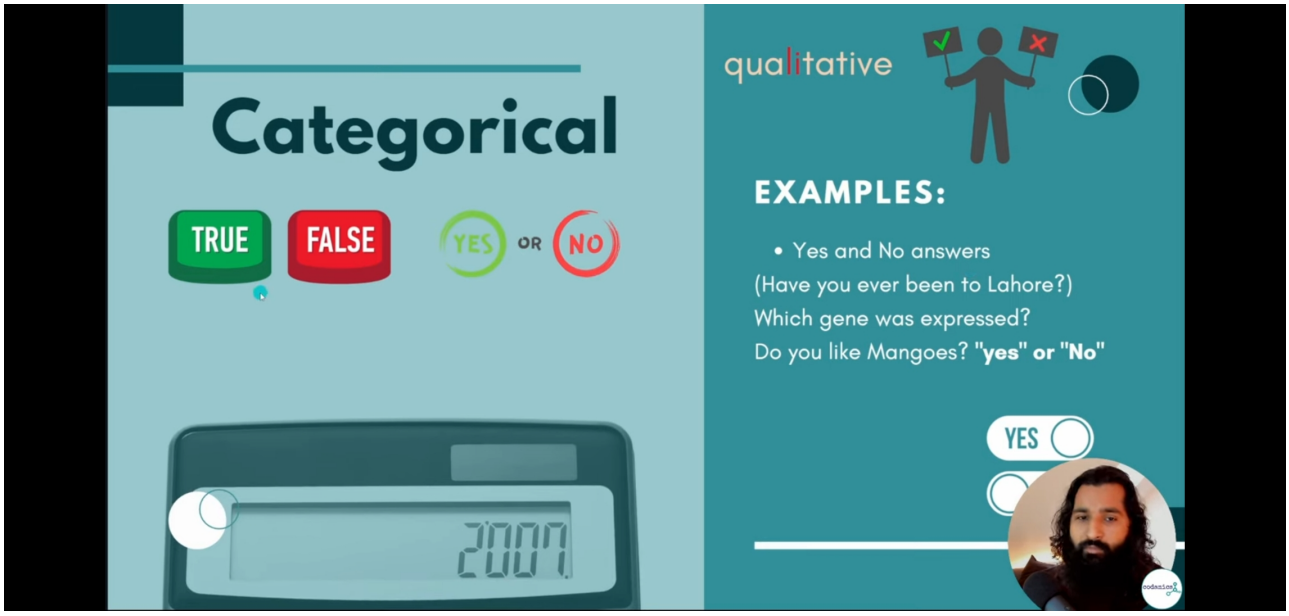


Step-4 Data Type

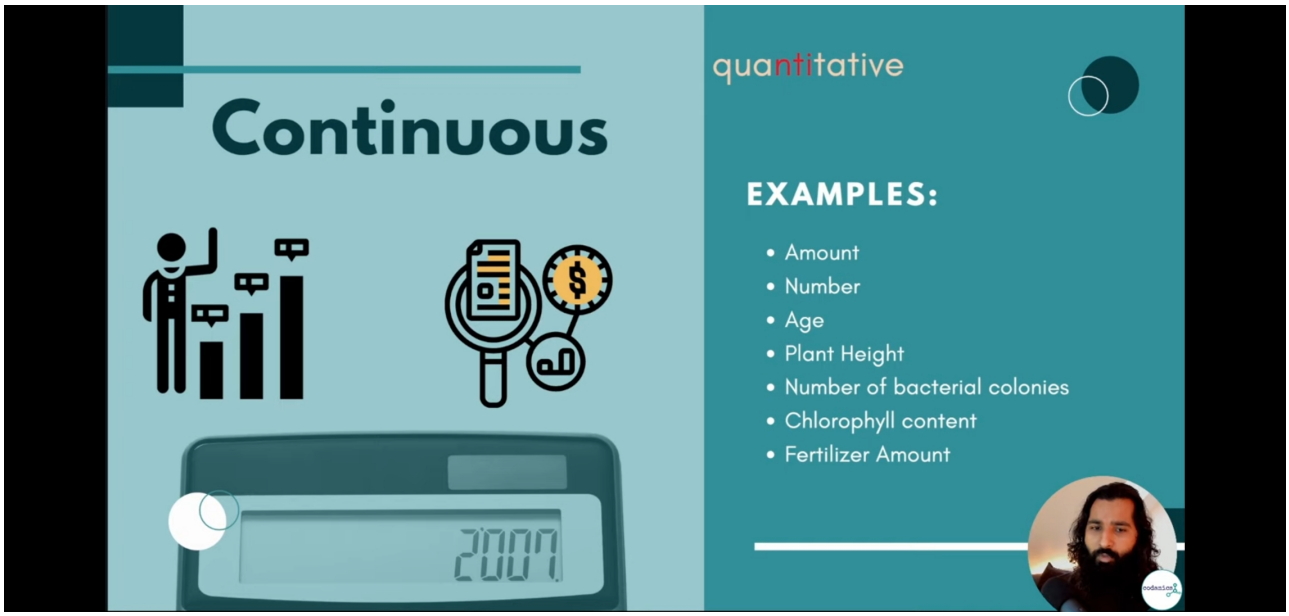
Either it is catagorical or continuous



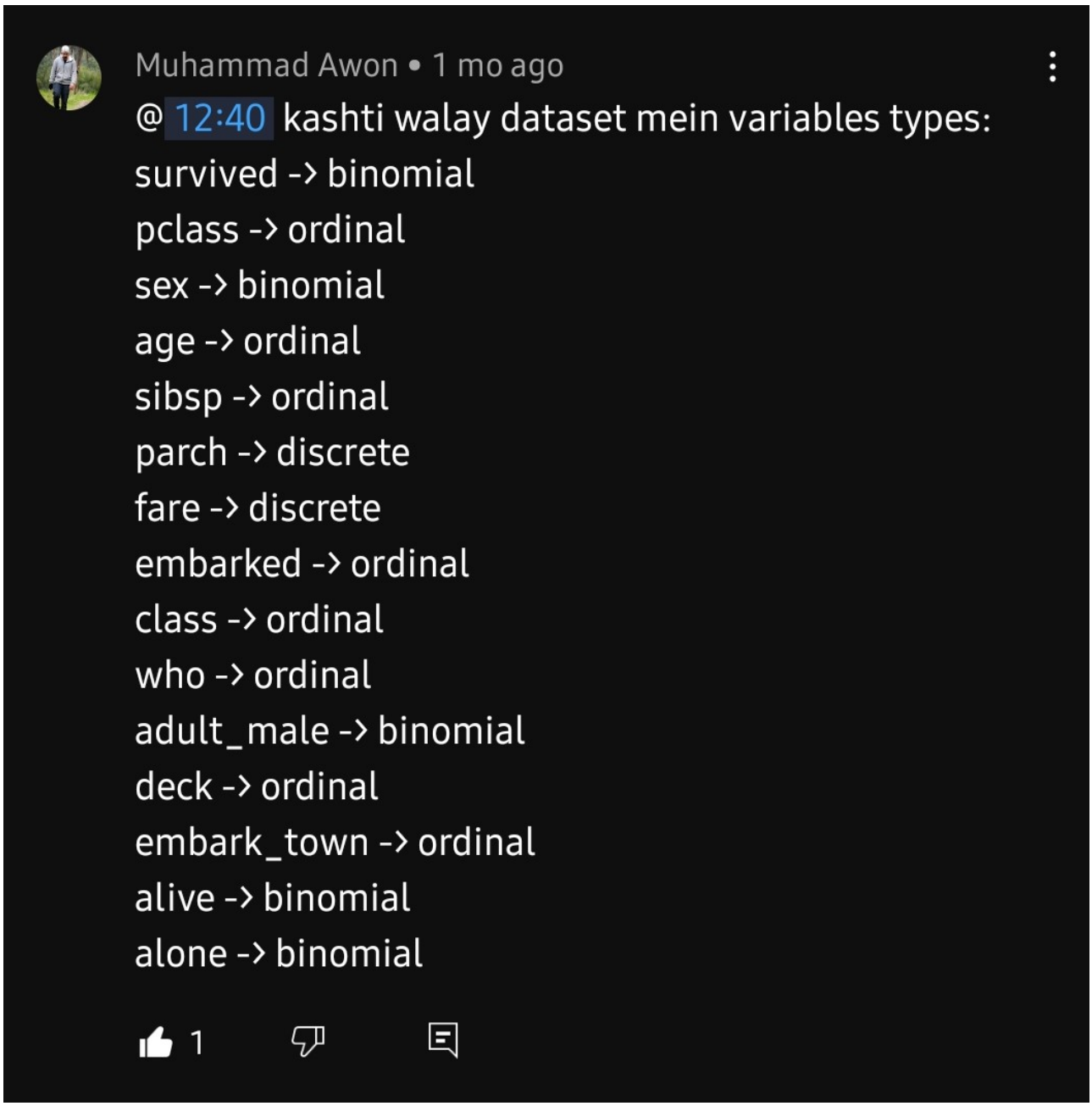
- catagorical



- continuous

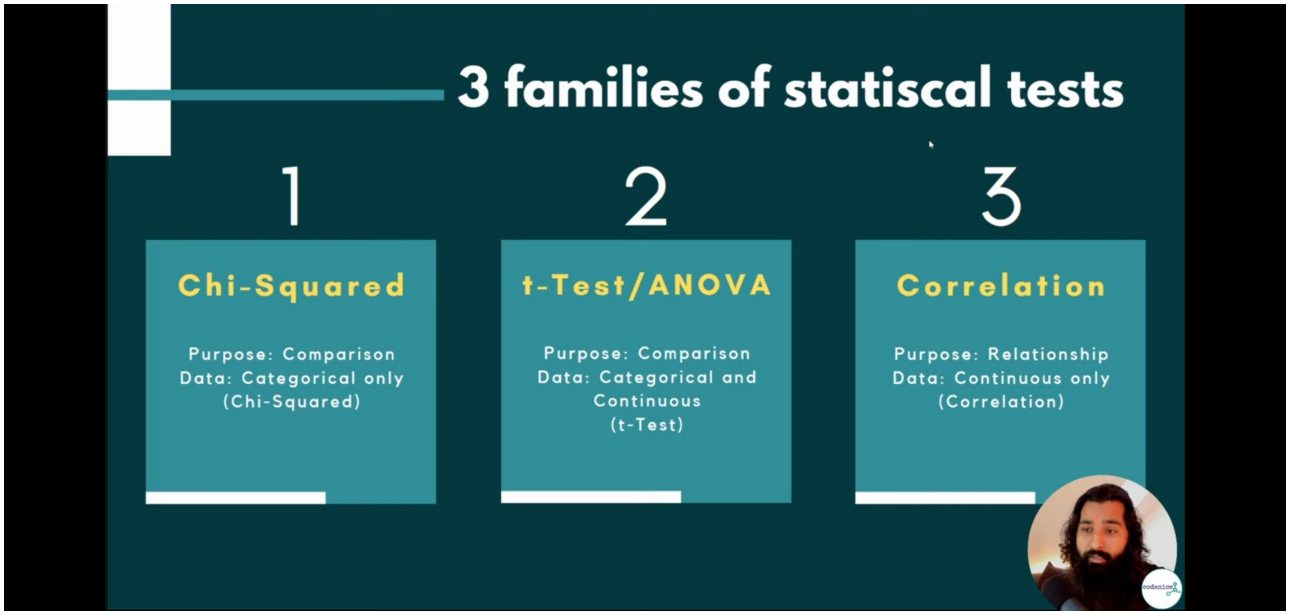
- 
Continuous
quantitative
EXAMPLES:
• Amount
• Number
• Age
• Plant Height
• Number of bacterial colonies
• Chlorophyll content
• Fertilizer Amount

- example

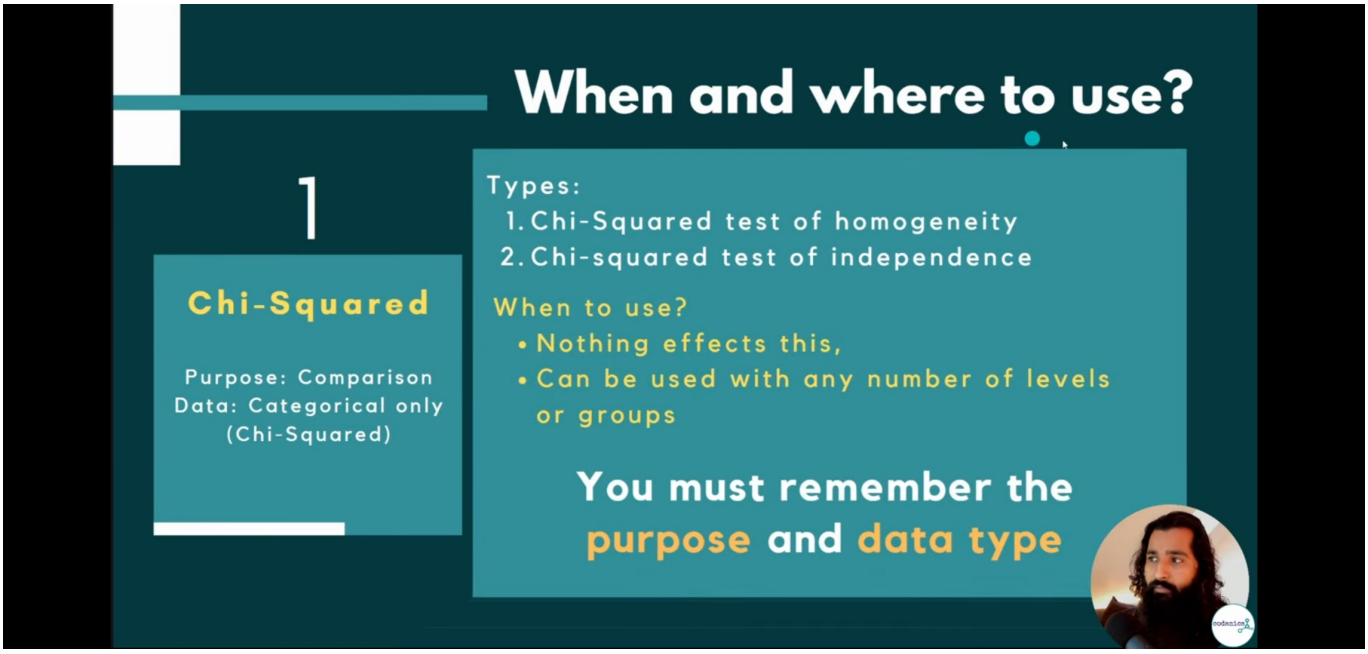
- 
Muhammad Awon • 1 mo ago
@ 12:40 kashti walay dataset mein variables types:
survived -> binomial
pclass -> ordinal
sex -> binomial
age -> ordinal
sibsp -> ordinal
parch -> discrete
fare -> discrete
embarked -> ordinal
class -> ordinal
who -> ordinal
adult_male -> binomial
deck -> ordinal
embark_town -> ordinal
alive -> binomial
alone -> binomial
1

Step-5 Stastitical Test

- under 3 families (basics)



chi-square test



t-Test/ANOVA test

one-sample t-Test

- compare from a known value (up and down data), like height of all samples from a known value (5. 5 feet)

paired t-Test

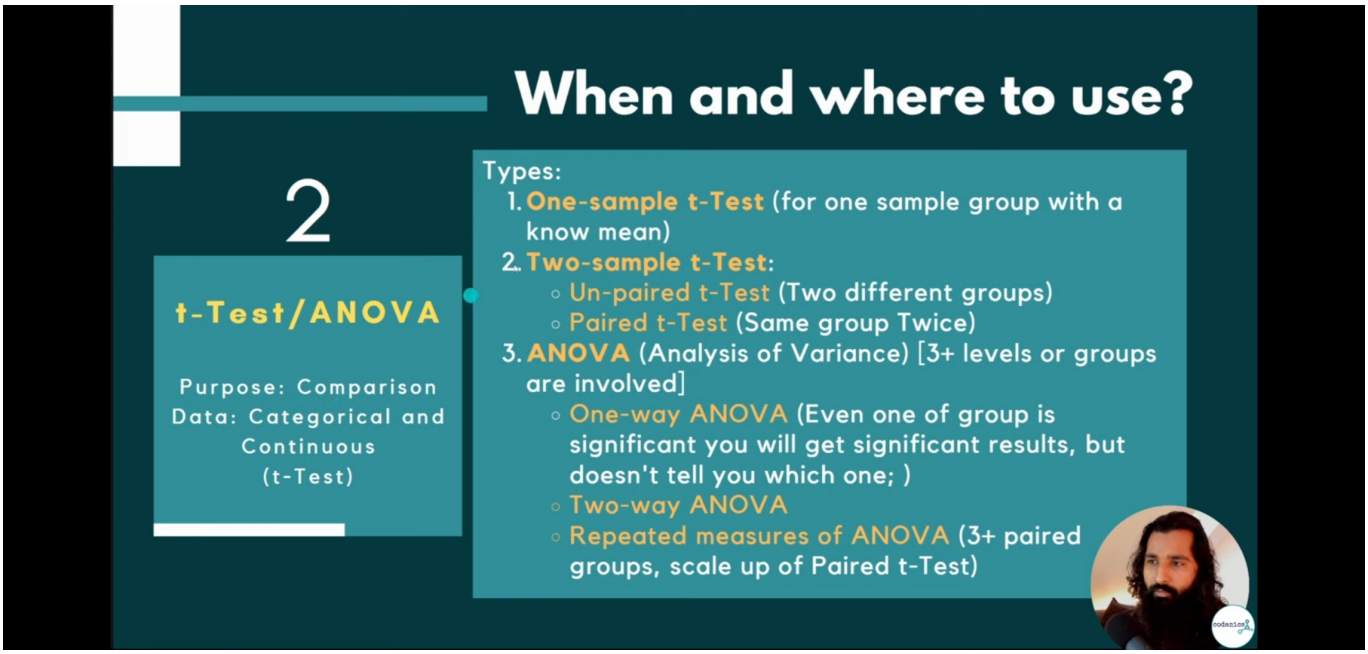
- just females height difference

un-paired t-Test

- both female and male height difference

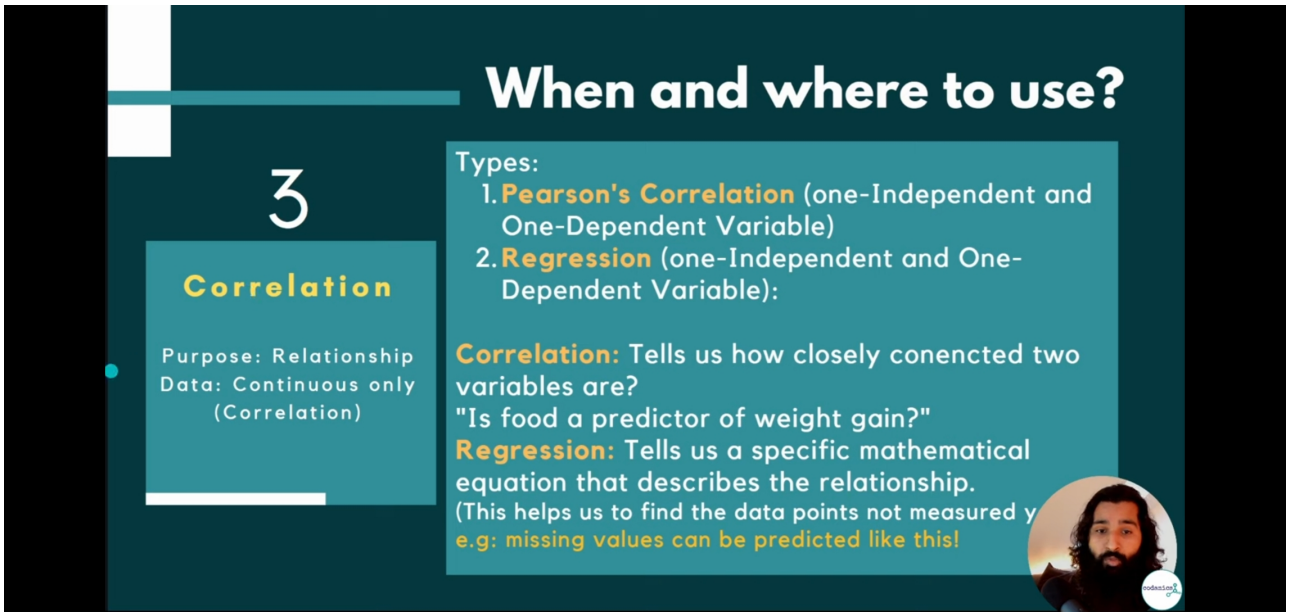
ANOVA

- more than 2 groups



Corelation

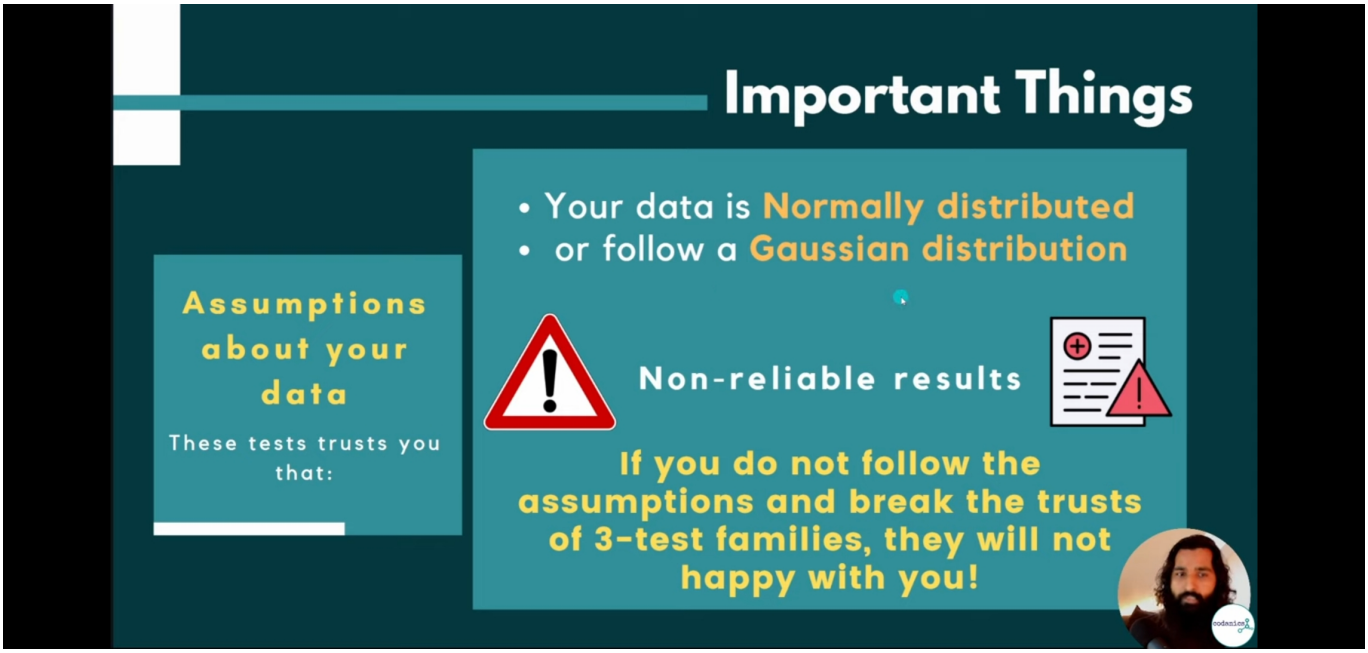
- relationship between continuous variables in a dataset



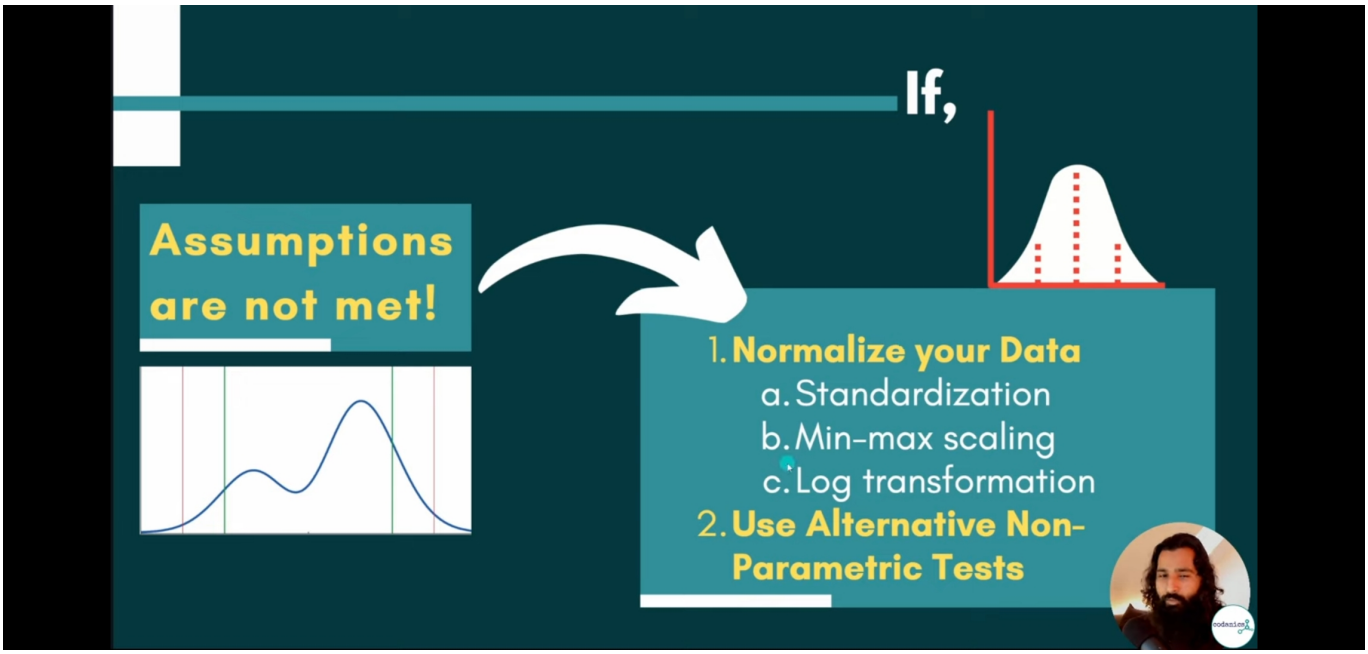
Importane things

Your data must be normal or follow a gaussian distribution.
If data is not normal, we will normalize it with different method.

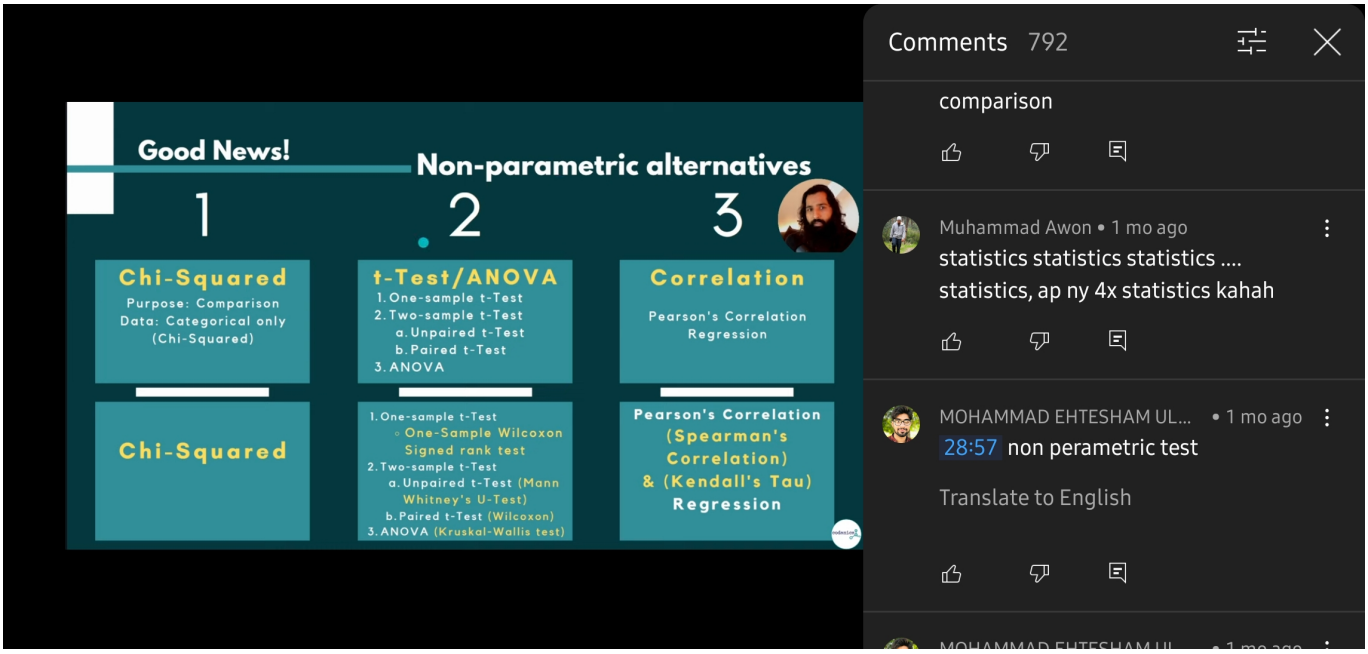
If not reliable results, then we disturbed all test.



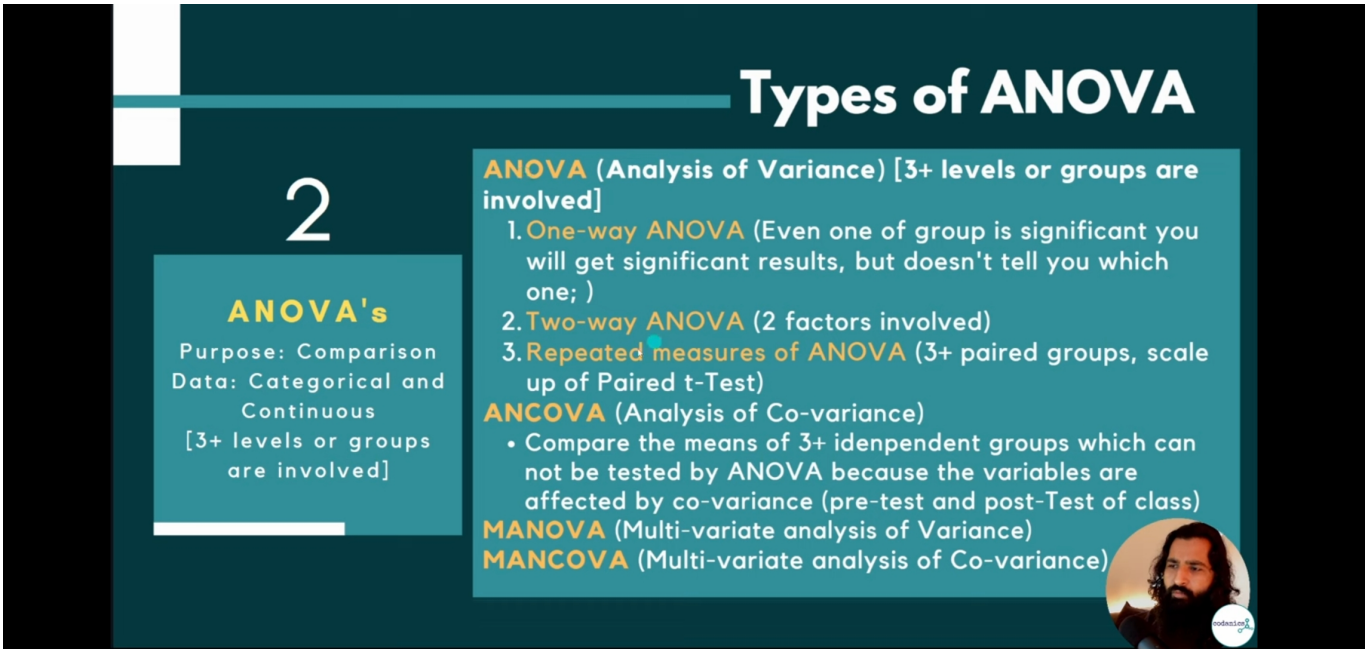
If data is not normal and assumption are not same then we have to do first normality , then secondly check homogenity.



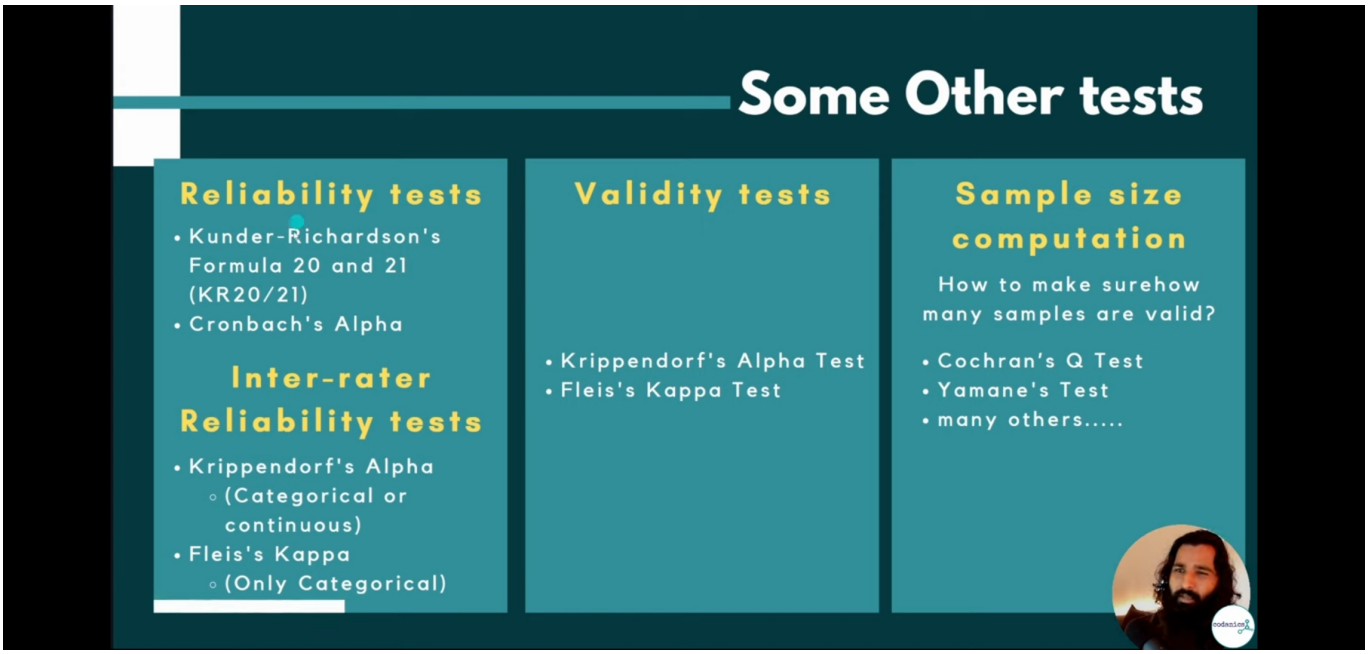
If still not normal and non-parametric test then



Types of ANOVA



Some other tests



flow diagram of this whole lecture