T-	-test,	2-teet	Binor	nial, Poi	ssion
	Para	metrec 1	res		

Lhi-Sque test - non paremetrec

It is non-parametriz test that is performed on cuteganical Jaka.

Egi- In the 2000 USA census the age of individuals in a Small found were found to be the following.

Less than 18 18-35 > 35 201. 501.

In 2010, age of n=500 individual were surple below result.

218

18-35

235

105 230 165

using x=0.05, can you conclud distribution of age has been charged in 10 years.

 $\mathcal{L} = \times \rightarrow \mathcal{H}_0$

 $\mathcal{L} \neq \mathcal{T} \Rightarrow \mathcal{L},$

Z = 0.05

C.I. = 95%

Degree of frealow = n-1

= 3-1

_ 2

chi-square text = x2

According to table on DF-2 and

x = 0.05, x = 5.991

& calculation

$$\chi^2 = \sum \frac{(f_0 - f_e)^2}{f_e}$$

fo = observed value fe = expected value.

$$\chi^{2} = \frac{(105 - 100)^{2}}{100} + \frac{(230 - 150)^{2}}{150} + \frac{(165 - 250)^{2}}{250}$$

2 > 5.99 3 > 5.99

we reject null hypothesis and accept alternet hypothesis.

F-test (Anova testing)

			ti	5
	omz	S & my	'loomg.	
	q	7	4	
Ī	- 8	Ç	3	
	7	6	2	
7	8	7	3	
t	8	8	4	
	9	7	3	
	8	6	7	

27 Blis = X-1 = 3-1 = 2 2tisthin = N - x = 21-3 = 18 2+ tasal = N-1 = 21-1 = 20

Degree of Freedom

Decision trule:-(dFBIW, dfwithin) (2, 18) F-tuble & = 0.05 from tuble =) 3.5546

calculate F-fest:-

degree of sum of mean Square freedom Squae 98.61/2 = 49.34 98.67 2 BW 10.29/18 = 0.57 18 10.29 within F = MS BIW = 49.39 MSWHAM = 0.57 20 108.95 totan > (\(\sigma \) \ SS b/W =

N

ony =
$$(9+8+7+8+8+9+8) = 57$$

 $50 \text{ My} = (7+6+6+7+8+7+6) = 47$
 $100 \text{ My} = (4+3+2+3+4+2) = 21$

$$= 9^{2} + 8^{2} + 7^{2} + 8^{2} + - - - + 2^{2}$$

$$= 853$$

F > X-7asle

=> We reject null hypothesis and accept alternet hypothesis.

A Type-I and Type-I

		Leale 7	7
=>	1-1	7	F
meusul	T	TP	TN
	F	FN	FP.

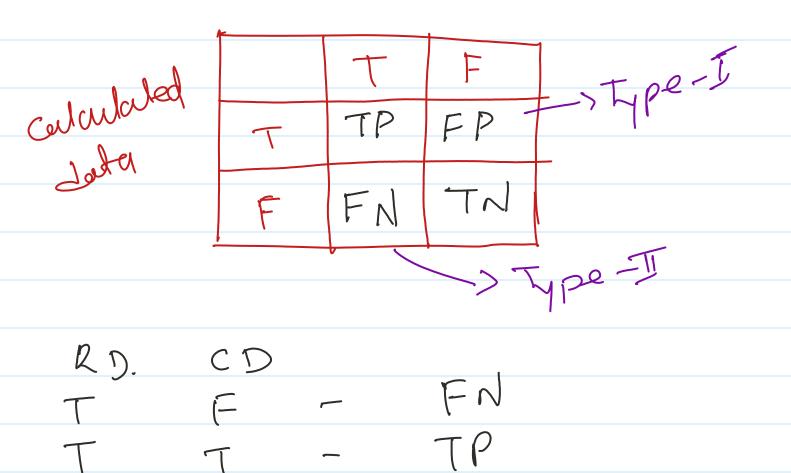
Ho = Ho ×

culu H1 = Rosuft

H₆

Person Conser - Soutoni of no concer.	
Mo= no concer loss monimun	
H, = courcer loss maney	
Type-I	
Concer-Hehas concer.	
Ho = no cemeent, coney	
H. =	
many + life	

Real Date



TN

FP

PT

FP

Date transfermation

1) Standardnization

2 Normal Lation

1) Standar ation -

ML algo. - [0,1]

1 100 1000

10 100 1000

 $\frac{5}{10000} = \frac{0.0005}{1000} = \frac{9999}{1000} = 1$

 $\chi' = \frac{\chi - M}{\sigma}$

(2)	Normalization	(mm, max)

DL, Algo. - [-1, 1]