T-test, 2-teet, Binomial, Poission
Parametrec tes

Lhi-sque fest - non parametrec

It is non-parameters text that is performed on cuteganical Jaka.

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

Less than 18 18-35 >35

201. 301.

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

218

18-35

218

105 230 165

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

Solv

M = X => Ho

₩ ₹ ▼ ⇒ H,

d= 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 = 5.99

of calculation

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

fo = observed value fe = expected value.

< 18 18-35 > 35fo 105 230 165fo, 500×20 500×50

100 100

E) 100 250

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

=) 71.81

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

 $50my = (7+6+6+7+7+6) = 47$
 $10my = (4+3+2+7+4+2) = 21$

$$\sum_{i} \sum_{j} \frac{1}{2} - \sum_{j} \frac{\sum_{i} \omega_{j}^{j}}{\sum_{i} \omega_{j}^{j}}$$

$$=29.20$$

Table = 3.5586

F > X-7asle

=> We reject Ho and accept H1.

Type-I and Type-I

Reality

How I T I F

Mo X

When I Reality

Ho I F FN FP.

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	

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