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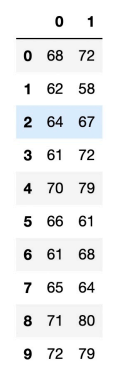
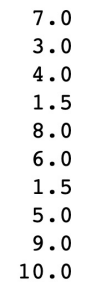
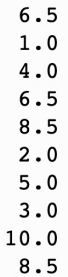
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years of experience (Rank)

Y Cou forO Uncorrelated -

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Seaman Rank Correlation Coefficient Spark Glam:C~~ox~~and,yeahee

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1950 ....2020, 2011, 2022, -2023 ↳ Correlation ~~↑~~

①Binom~~i~~al

② Normal/ Gaussian

③ Geometric

i

-POISSON RV

Discute Cont~~i~~nuous cdf Normal/Gamian I pruf Binomial cd~~f~~ cdf Geometr~~i~~cet

- ~~-~~ given

COISSON I "Count of occurences in a

~~-~~ t~~i~~me/s Continuous

-

case Internal" Football Game Discrete Arg~~-~~of goals fir 90 mine=~~2~~.5Rate:2.5 G/90 Mins

#

what~~i~~s the fobs of having Igoal 2.~~5~~G - 90 mins in the last 30 mi~~n~~s?1.25G - 45 mins Customer going to astoreRate 100.3</s day Arg # of Custome / day =100.3100.3) -24hour ↑(10 Customers in next 1 how] 4.17C+1hour

Support~~T~~eam Rate:100Call/1 ~~-~~hour 100 Call/hour. 100 C Ihouw

I 200(2hour P(50 calls in Ihows Ega~~c~~cident/day=~~3~~ Rate:~~3~~A/D

Hospital

P/5 patient will ~~a~~vive tomorrow) 3 A IDay SA Idays

Rate:~~A~~rg. no of occurrences in agiven - time/space Notation di~~s~~cute -

Interval

~~-~~

Continuous ↳~~I,~~↳ Amy-coding mathemat~~i~~c.

Rules, counting:Random Variablethatwehavedetermit a ② Independance:~~8~~ccumb are independant.

③ Rate is indifrendant from actual occuence. ⑭ No si~~m~~ultaneous ocence.

0B~~i~~nomial ->Poisson -- - -L~~i~~m k's -u - 0 ~~-~~ Li~~m~~s k =~~v~~alueC yex ↳=~~l~~ate e(mp\*(r)

**A city sees 3 accidents per day on average.**

**Find the probability that there will be 5 accidents tomorrow?** Rate~~:~~ 3A / Day 3 =~~3~~

X =~~"~~No- of accidents in aday" k=5

P(X=~~3~~)~~:~~ ~~BesS~~e~~e~~ =0.1008 P(X=5) =~~p~~oisson.~~p~~rn~~f~~(h =~~5~~,3 =~~3~~) =~~0~~.18

**Let “ X” be the number of typos in a page in a printed book, with mean 3 typos per page.**

**typo?** ne

**What is probability that a randomly selected page has atmost 1** MR =1 3 =~~3~~7/4 ~~X~~ =~~0~~,1 P(X =2) =~~o~~(X=~~0~~7 + p(X=~~1~~] =

~~0~~.19

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PN):~~p~~oisson.c~~d~~eee~~t~~3) =~~0~~.1.

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↑(Evidence / Ho is tue] Ho: M, =~~M~~2 Ho :M, ~~F~~MZ

d 500) (500) 2

x~~0~~E~~x~~. 1 --pvalue L

DMART 0 X M2 0.02 -mi -0.01 -- ~~-~~-

-0--↑ ~~⑰~~I% 100

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