2-16.2021

By Random Variables (Discrete)

X = # of Tails

HH -AO

H9

T M-

T T -- +2

Probability Distribution

PLX = 0) = PCMH) = PC'/4)

P(X=1) = PCMT U 9H) = P(1/2)

PLX = 2) = PCTT) = 4'/4

(1) Possible James of X (x)

(2) What are the corresponding possibilities P(X=x)

Discrete Random Variables have a discrete position in the number line

2-18-2021

Probability Mass Function (pmf) Proquires

(plx) 20

Explx) = 1

Ex Fair Coin

Tails Lands = 1/2 = plas Mends Lands = 1/2 = plas

Ex p(x) = \ 1/2 = 17 X=0,1

Ex Binsed Coin

Yeils Lands = 10x = p(T)

C: # 9 ails

(a, x:1)

1-c, x:0

(O, 09hrumise

Chmalitive Probability

"Probability up to X"

"Probability to the left of X"

is the right of the probability

probability

FLX) = PLX < x)

Example of Committee Probability as a Graph

- p(x) (0.1 picia)

(0.2 picia)

(0.3 picia)

(0.3 picia)

(0.4 34x42