Weell (4) Probability Understand probability distributions, conditional probability and Bayes theorem. Introduction to Probability Distributions	l.ty
Understand probability distributions; conditional probabi	l.ty
	l.ty
Introduction to Probability Distributions	
J. T.	<u> </u>
A Comment of the Comm	1
Distribution: le possible values a variable can table	and how
Frequently they occur	
Y the actual autcome of an event	1 1
y one of the possible outcomes	
P(y) the probability function	
Recorded the frequency for each unique value and divide it by number of elements two characteristics mean, variance Population	type of data
sample mean, sample variance	Standard
\overline{X} 3^2	deviation
62 = E((Y-H)2) = E(Y2)-H2	6,5
0===((1-4)/==(1)/-	Same unit as
	····cary
Types of Probability distributions	2
Types of Trebusiany alsitions	
finite number of ordcomes, Infinitely many	temes
Discrete Continous	
J iscreme Commons	
$X \sim N (M, \sigma^2)$	
	11
variable Type	

Discrete Distributions	
Coming 1 1 0	
Equiprobable Uniform	
True, falce Bernoulli	
true in a row Binomial	
how usual Prequenic Poisson	
	1.1.1
Continuous Distributions	
	1
Normal distributions	
Monited date Student's-T	
Chi-Squared asymmetric	
and only of non-year time	V5 24
expanential rapilly changing	- Charles
O . 1.	1
logistic distributions	
Uniform Distributions	
The state of the s	
U(a,b) X ~ U(3,7)	
(4,0)	
Die example	
P(1) - P(2) - P(3) - P(4) - P(5) = P(6)	
(3) (6)	
each outcome is equally likely	
Auth He mean and the variance are uninterpretable	
No predictive power	

	1	1
Date:	\	

Binomial Disteibn	dion
B(n,p)	p probabillty of surcess in each one
X~ B(10,0,6)	
<u> Ωετη(ρ) = Ω(1, ρ)</u>	guessing 1 question Becombli guessing the entire quiz Binomial
to Be Continue	