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X	Part-A Treatical Coundation
21	What is statistical distribution 9
Ams	
	A mathemical function that shows how data or nandom Variables are spread IT tell us the probability of different out comes
	out comes.
	ey : Normal, Binomial, Poisson)
02	What is a Q-Q plot and why it is used?
Ams	
	A Scatter plot Compareny the quantites of sample data against a theoretical distribution Coften normal)
	2/ points lies close to a
	If points lies close it a straight line of data follows that distribution,
03	
	Ofference for discrete and continous distribution?
Ams	Descrite: Takes springer Values Commenter of Students, dice scale) probability is describe by PMF.
	probability is describe by PMF.

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	Contract of the
	continous à Takes any Value in a nange Circight time) probability is described by PDF
-	is described by PDF
24	What is Bernouli distribution?
2	and the second of the second o
Amb	Models a single trail cirth only
	L'owcomes : Success () failure
	Models a single trail cuts only 2 outcomes: Sciences (1), failure (a) cirts probability (1-p).
	eyé Coin Jars
05	What is Binamial distribution?
<u> </u>	
MMS	Extension of Jermoulli -> probability of & success in m independent Frails with probability p. example
	Frails with herobalisty be example
	number of heads in 10 coin tosses.
~ .	
06	what is log mound distribution?
Ams	21 lou(x) 13 monmally this Tion
	then x follows low-mormal
	Scutable for positive skewed like
	incomes, stock prices a
	then X follows log-mormal. Scutable for positive skewed like momes, stock prices a Transation amounts.

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07	What is Power law Distribution?
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Am	A Mary - Jailed distribution
	one small values are
	A heavy-Jailed distribution where small values are common but very large values Coutliers) still occur
	Chiller Sell Occier
	mountilly falls as a pour
	of the Value CPCX ax-a)
	Seem in creath distribution unternet traffic
	me Chaffel
28	what is Box-Con transformation?
Ams	A family of pour transformation applied to data to reduce skewners and statistize variance. Helps make data more mornally
	applied to data to reduce
	skewners and statistize variance
	distribute for statistical
	modeling.
MA	
09	What is passon distribution?
Δ	
Ams	Models the number of events
	happenery in a fixed interval
	Cotime, area given an
	avsage rate .

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-27/2		
-10	010	10/6-7 12 7 2 1 1 1 1 1 1 1
-12	<u>Cero</u>	What is 7-score perdulity 9
~424		
-	Amb	Standardized Score ? - (X-u)/a
,		Standardijed Score: 7-CX-w/a Tells us pour far data print is from the mean in terms of standard deviations
		is from the min to
		at deal to the forms
		of Sandard derraliens
-		
		- Osed to find perobalitaties and
-		de Jeit outliers.
	011	n 11020 de 1. F - 2 por
7-		Defference between PDF and CDF 9
W	Λ	port of the original transfer
4	Amb	POF C Probability Domsity function: Stores Liklihood of data near a Value The area ander the curve = hrobability
		liklihood of data near a Value
	F1	The grew under the curry =
		probability
1		COFC = 0 + 10 + 10 + 10 + 10 + 10 + 10 + 10
-		Stour Gemelative distribution femilion: Stour Gemelative probability that X & X. Gas from 0 #
		Stous Cumulative probability
_		that X & x Craw from OH
		501
	\	
		. 7.
-		X — Y ~
_		