ML+MLORS	Sample Space
Probability: - Degree of measurement of uncertainity.	
Degue of belief: - Absolute certainity - 1 10.	
Law of large nos: - more expt. we run, we will tend to g	et the expected
probability.	
Grambles la Jallacu & tilhau a sail & 12 Mil Lalian	ox which is less
Gambles's fallays:- When a certain individual believe likely.	Jan W less
	,
Random Variable -> It has a probability associated with	14
Discrete Continuous PMF:- Probabilities of given	· discrete
	variable.
PDF:- " (onti	invous vonable.
Experted Value	
Mean of probability distribution. (E = 2x1	P(x)
expected probability.	,
(y≈E(x)) law of large nos.	
	<i>p p</i>
Contral Tendency -> identitivity the central position of the a	zata,
(1) Mean? - Confinuous data most common. * cutual value presen	nt in data.
If duta has outliers, then mean gives woon	; intrepretation
Mediani: Middle score of arranged data 5 less affected by outlies	
5 less affected by outlier	
male; most freg. non in the dataset	
"It is the jame responsibility of every criticen to feel that his country." -Sardar Vallabhat Pa	itel

Quan	rles -
L> 50	replédicided into equal-sized subgroups. Dividing into avas of
وم	voted probability.
_/	
-> Quart	iles: Divides into 4 que equal parts
Perce	wited 2- 11 per 100 years
-> Deri	es:- 4 1 10 11 11.
* Quast	iles: Divides the detaset in 4 00 equal points.
	La Q1, Q2, Q3 quartiles.
	in the state of th
	2 4 4 5 6 7 8
	2 4 4 5 6 78
	Q ₁ Q ₂ Q ₃
~~	Tower middle hartsper
	quartile) quartile) quartile)
Interg	unitile Range conford point 6/10
_	1 → Smallest and median
•	$Q_{i} = N \times 1/4$
	distant of Outliers:
	033 middle value blw Q2 & highest
<u> </u>	Score
- Percenti	le 5- Contain % of scores fall below that number.
÷	
- Deill :	- 10% > (st deile ? Variance: How for data points differ
	60% + 6th deile J pom mean.
~	A !A
	Voincure 1 3 callered,
	-0 4.112
	1302 = Zi(xi-x)2
	V N −1
	Fish. Svalue of observation
	deviation.
~	
.~	

Conavance: - Relationship blu two sandom variables (directional)	
Fit both in crease = + we convirance	
- if Day Brek demand, & increase >1 - Ne conamonce. Page No.:	
(or(x,y) = E(x;-x) (4:-4)	
n-1	
Correlation: - defines the strength of relationship. (Ranges from -1 to 1)	
Peasson coefficient: Pay: Cor (x,y) Tx: Standard deviation of x,	
Tox of by Standard decilation of y.	
Joint Probability Distribution 8- two probabilities are at same time.	
Gonditional probability: P(AIB) = P(ANB)	
If A &B one disjoint' P(B)	
AnB= \$ 7 P(A B)=0	
Distributions: OUniform distribus- Probabilities in constant over a range.	
$\frac{1}{b-a} = \frac{1}{b-a} = \frac{1}{0} = \frac{1}{0} = \frac{1}{0}$	
b-a Co, otherise J	
De Normal Distribution: - Data which is closer is more freq. to oreur.	
Sif graph is normally distributed _> mean = mode	
-> Symmetric about curve.	
Empirical Rule: Where the most of values in ND. 7 68% lies in ISD $y = y = (x - y)^2$ $y = y = (x - y)^2$ $y = y = y = y = y = y = y = y = y = y $	
$f(x) = \frac{1}{1 - (x - u)^2}$ $\frac{93.70 \text{ defin 25D}}{99.70 \text{ defin 35D}}$	
4J2x 242) 44.7% 4014332	
1 N-1	
b) z= 2-7 Greametric Distribus: (1-P) P	
4 1 1 1 2 1 -P 1 -P 1 -P 1 -P 1 -P 1 -P 1	
p^2 p^2	
the prime responsibility of every citizen to feel that his country." Sardar Vallabhaí Patel	