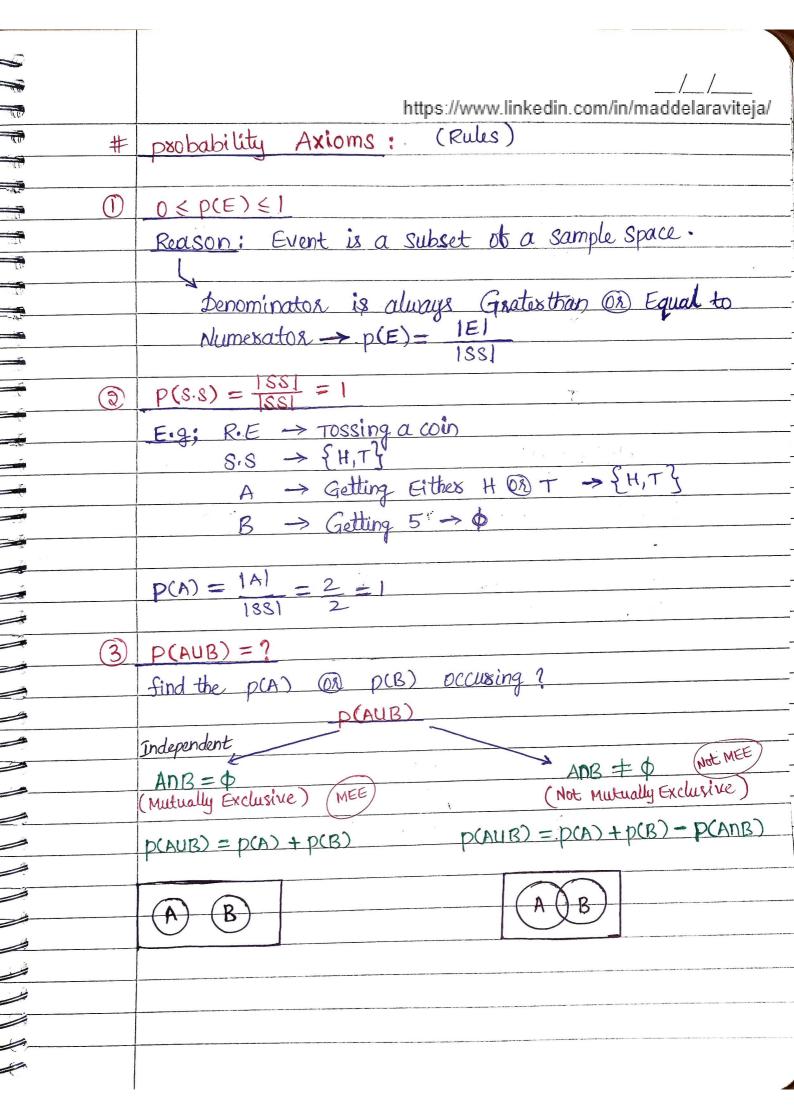
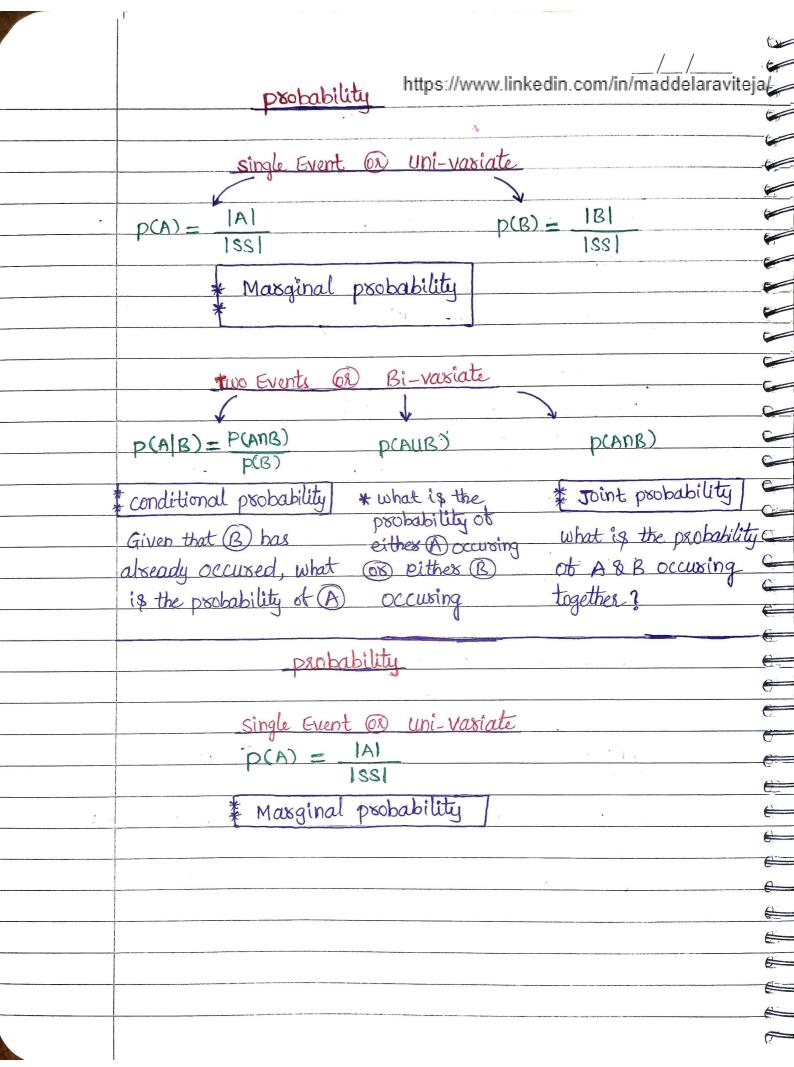
	Probability/_
TO THE STATE OF TH	https://www.linkedin.com/in/maddelaraviteja/
(II)	> Study of Uncestainity.
77.00 (I)	Random Experiment:
Cito	It is a process too which the Outcome is Uncertain.
(4)	Ex: Tossing a coin
	Rolling a Dice
	Sample Space:
	It is a Set of all the possible outcomes of a Random
	Experiment.
-53	Ex: ① RE > Tossing a coin S.S > {H,T}
<u> </u>	
<u> </u>	S.S -> {1,2,3,4,5,6}
3	Event: A subset of a Sample Space.
<u> </u>	
	Ex: RE \rightarrow Rolling a dice S.S $\rightarrow \{1, 2, 3, 4, 5, 6\}$
	S.S -> {1,2,3,4,5,69
	Evennumber -> {2,4,6}
	E1
0;	
	dice Roll?
0;	R.E -> Rolling a dice
	$S.S \rightarrow \{1,2,3,4,5,6\}$
2	$E \rightarrow \text{Even} \Rightarrow \{2,4,6\}$

p(E) = Favorable No. of outcomes

Total No. of outcomes

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 Two Events OD Bi-variate (i.e; Event A, B)
P(AUB)
Mutually Exclusive Not Mutually Exclusive
$ANB = \phi$ $ANB \neq \phi$
p(AUB) = p(A) + p(B) $p(AUB) = p(A) + p(B) - p(AB)$
Joint probability / P(ANB)
(A & B axe Not mutually Exclusive)
Dependent Independent using conditional probability
using conditional probability using conditional probability
p(ANB) = p(A B) * p(B) $p(ANB) = p(A) * p(B)$
111 1 1 1 1 1 1 D(N/D)
conditional probability/P(AIB)
Dependent Independent
 $p(A B) = \frac{p(AnB)}{p(B)}$ $p(A B) = p(A)$
p(B)
 O(RIA) * D(A)
$p(A B) = \frac{p(B A) * p(A)}{p(B)}$
PCD7.

		£
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	# Formulae:	
	Masginal psobability -> p(A) = 1A1 Single Event 1SS1	
(T)	if ANR = $\phi \rightarrow P(AUB) = P(A) + P(B) - P(ANB)$ (not MEE)	
	$\frac{1}{\text{Vif ANB}} = \phi \rightarrow p(AUB) = p(A) + p(B)$ (MEE)	
-	it ABB axe mutually Exclusive -> P(A/B) =0	
<u> </u>	7 mt mitually 1 (O(A)R) - P(B A) * P(A)	
conditional _ probability	Therself PUS)	
	if ADB = $\phi \rightarrow p(ADB) = 0$ Mutually exclusive	
- (3 - Joint - probability	a Dependent	
	Not mutually Exclusive Independent	=
	p(AnB) = p(A) * p(B)	
		= → →
		# + 1
		/ 1