SURYA Gold emarks Machine Intelligenu Attificial Intelligence - Simulation of human outeligenu processes Machiler Learning .to Lecome More saccurate at predicting out comes withour explicitly being programmed. Type of ML:-1) Superviud bouning algorithm is brained on a labeled dataset, whop input data to output wholesof dato, they to find pathing 3) Jeni - supervised learning = 4) Reinforument clearning: Four Categories Views of Fitelligence: Thinking chumanly

Acting humanly

Thinking rationally

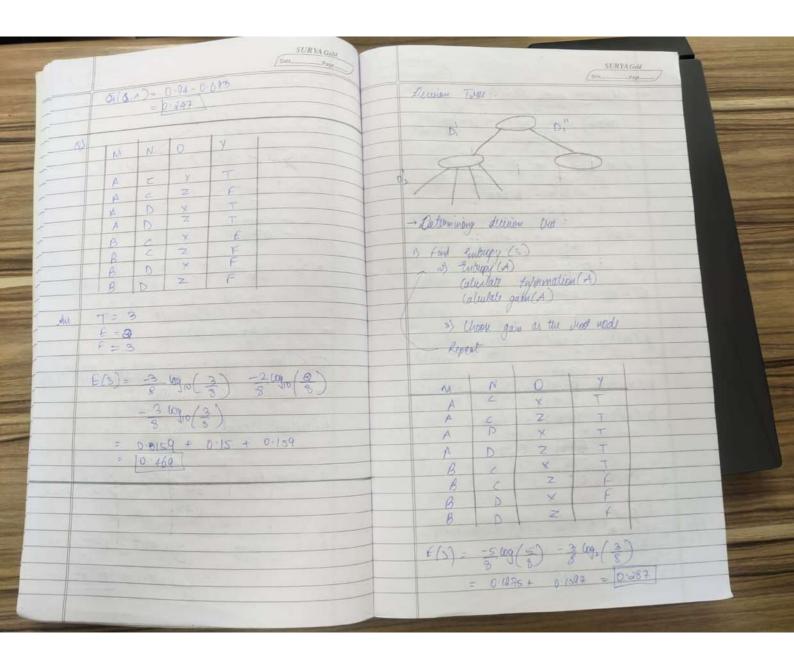
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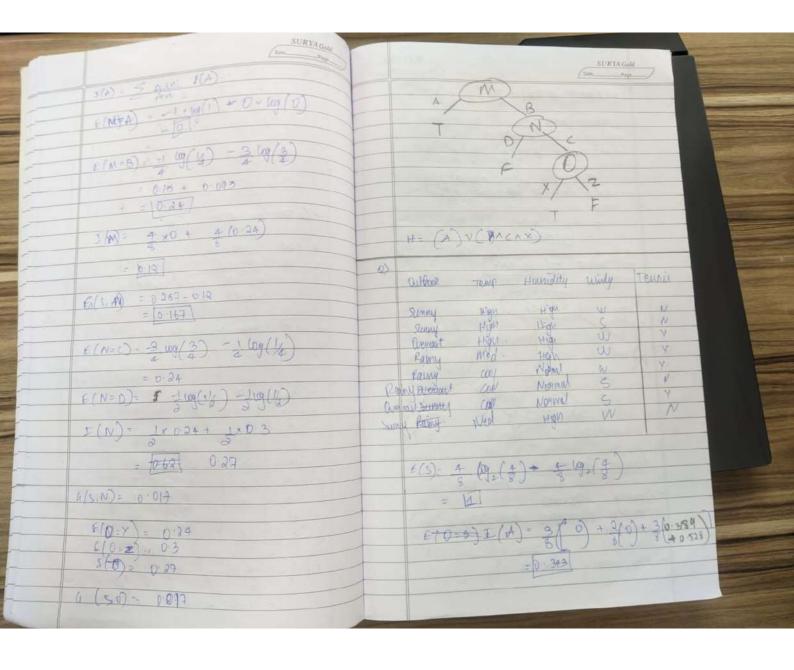
SURYA Got4		SURYA Gold Contr. Proc.
Jutilliand Jand and its Types -		Action -
-> Can be uptwant, human or outsits.		Afterent choice / moves that an agent can
-> Can the continue to		Make.
- Main 4 rules all A adhere to Pareire surinominant do make do recione		Type of Euningement
· Pension action and to make decisions · Observations used to make decisions · Decisions take actions	A	Obuwahlity
· Act Hatimally	150	Delvenimum (Opporte - Stochastie / Pandomress)
PEAS (Manastrusation of agunti)	4)	Observability Deluminium (Openile - Stochastic / Pandomren) For odicity or esequential Symin lin
F - Performant Measure	5)	manay
A = Advatory		Types of Grallinest Squits.
s = Semon	٨	Learning ognit
-> Eg Vocuum chanus	97	Leaving agent Simple Refler og ent Nodel fand open (user previous history) Goal tool ogent Itality agent
P. Ability to clean dust, amount of duit	4)	(pat teed open)
P. Ability to clean doct, amount of doct cleaned, power efficiency	5)	
E Rooms of different sizes, dust of different types		Marville Living :-
V		- tooning from any process by which a system improver performance from superiore.
A Notor, lube, storage your, whelly movement		
s lamera, dirt detection servor		- Study of also that
state -		at some talk
		- Juan apperiume
- longiguration of an agent and its universument		
Value Court		

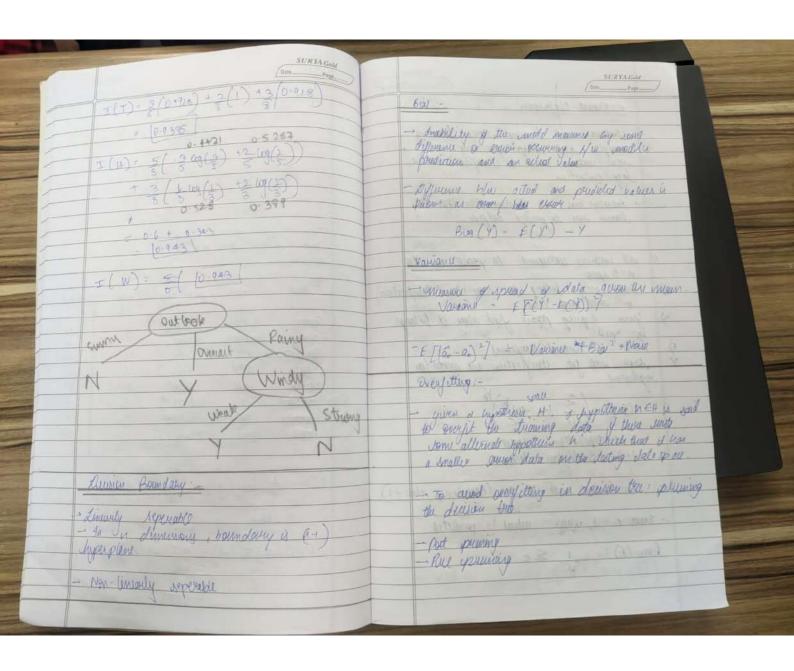
SUMMANDIE	10000
Date Page	SURYA Gold Date Page
Conjunition	Type 1
- non) = con) = 1	
(Applied) (coupt)	- Reyormanie meline
A II william	- Lewoul
2 Duly milder positive sample	Producted
Souly unider portion sample That specify hypothesis Ridge from specify general	- languison justini : + - True folse (Type 2) 2 Town Agastine Actual Docton Negative 5 Town Agastine Actual Docton Negative - Town Agastine
3 New gan of 1	32 False Rolling - Pour Negative
O) HEND = NULL - NULL - NULL - NULL - NULL	32 False Negative Actual Portain Negative 32 False Rolling - Positive Negative A Kalse Negative Tupe 1
- Marry & hig 1 No 1 Eup 1 One	
	- ALLWARY = (TP + TN) TP + TN + FP + FN
= Now , 3 , No , 8mb , 3	
= Many ? ^ No ^ 1 2 ? 1 ?	- Precision - TP (HOW many convert (P+FP) - we were did we
- Ryawbaski	CO tek)
. Attribute which are not pinory get ?"	-Recall = TP (How many the cases
· Das not consider negative sample.	(clentificity) 7P +FN Lit us cattle prematel (The Parties rate) the cause)
Benforwance Learning -	- Fa score = Harmonic Mean (Ricall Ruccinon)
superted propert list (Y) subjected perspect (ist (P)	- 2 x Roull x British
	Reall + Pricings
- Mean Square Frien 1 & (7-9)	- specifith - TN
- Accuracy A = I-E	- specificity - TN - FP

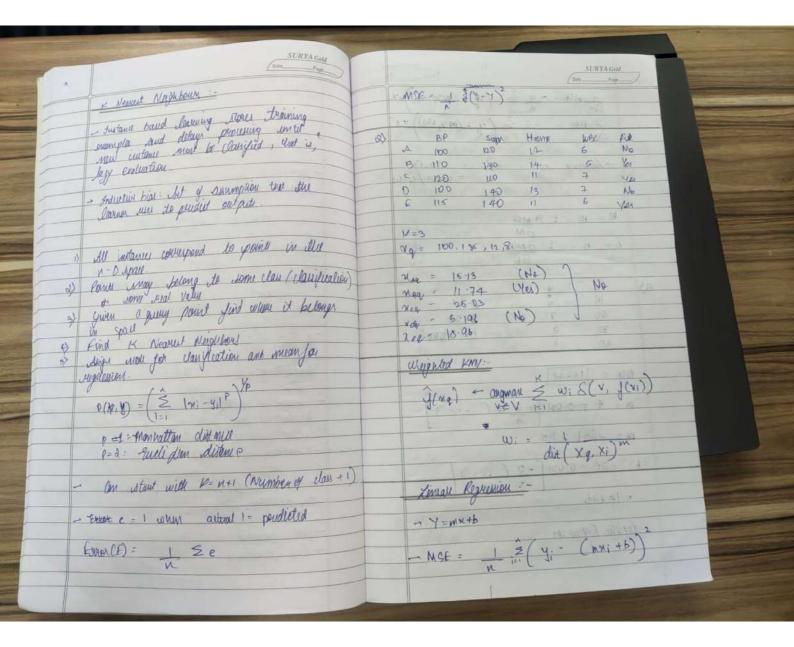
A B C Page	SURYAGOM COM SURY
A B C	Town parities P(1,15) Town Negative P(1,15) + P(1,16) + P(1,16) + P(1,16) False Portage P(1,16) + O(1,16) + P(1,16)
Anway TA+18+TC	Filly Negably P(1) (2) TO(B) (C) (C) (D) (C) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C
Recall A = TA -TA-FR-FE	Par 9/1 Pa 4/10
- Conficien putilin	FIB = 2+9/91 × 9/10
A 2 2 0 B 1 2 0	- 0.1787 - 0.1787
000	- Falso Pailure Rutt - Sperywith
ACOUNTY 2+2+3 - 7 - 70%.	= I - TN TN +FP = FP TN +FP
PA = 2 = VQ PA = 2 = 3	
R _b = 2	+ Relaxing granding wonstoristic company throught fored by TOR and FPR
$R_c = \frac{3}{3}$ $P_c = \frac{3}{3}$ $R_c = \frac{3}{3$	- sour under curve : Source under TOP US FPR curve signifies how good the maill is
0 12 12	

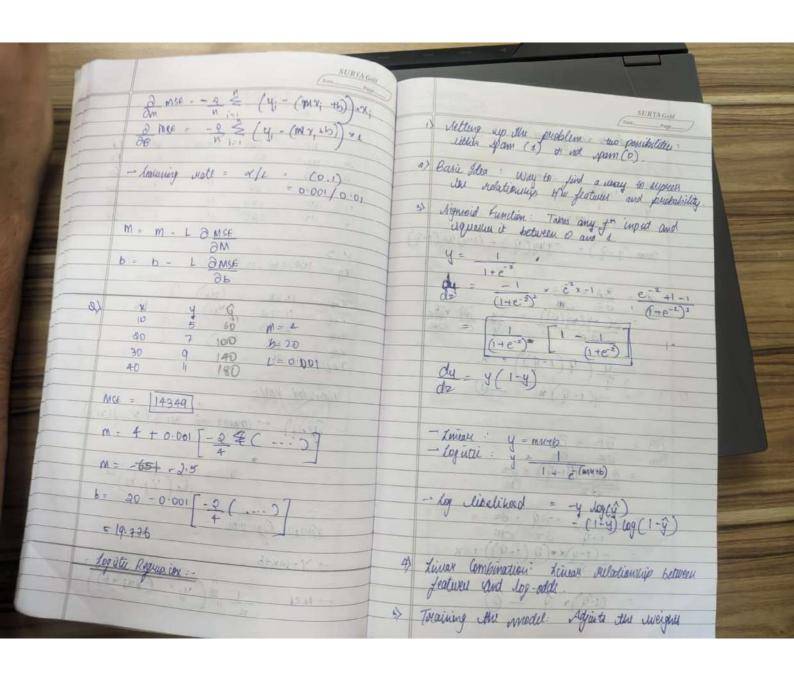
Com Property Towns Representations	SURYAGAM Gan Pays - Puthopy M Ica/ no 1 - M Ica/ N
A H Tot Ang Y(timeny) A 25.5 > A C A 25.5 > A DC A 25.5 > A DC B B B B B B B B B B B B B B B B B B B	F(Outliet = Sumy) = $\frac{1}{2} \log \left(\frac{n}{2}\right)$
Putupy -	$E \left(0 \text{ which = } \text{ fairy} \right) = \frac{-3}{2+3} \frac{100}{2+3} \left(\frac{2}{2+3} \right) = \frac{2}{2+3} \frac{100}{2+3} \left(\frac{2}{2+3} \right)$ $= 0.471$ $= 10 \times 0.471 = 0.603$

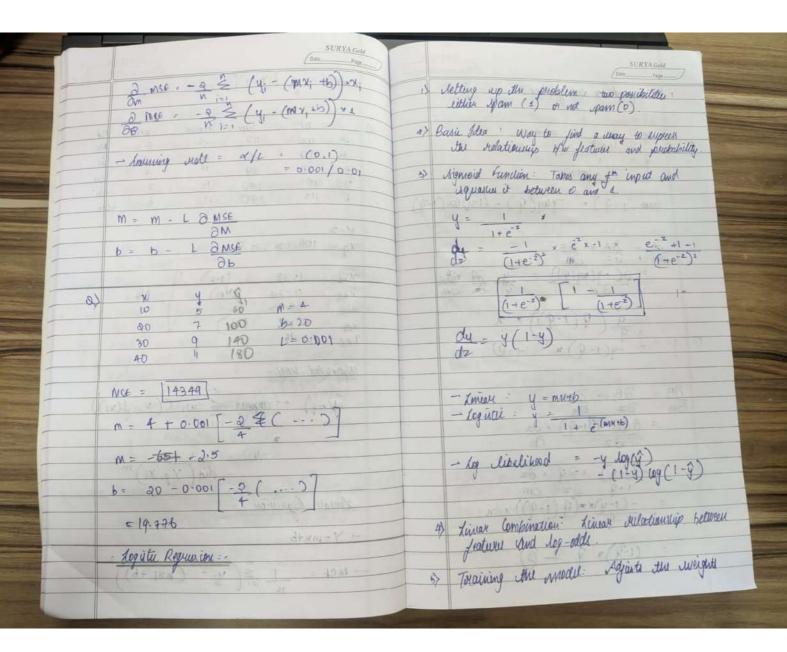


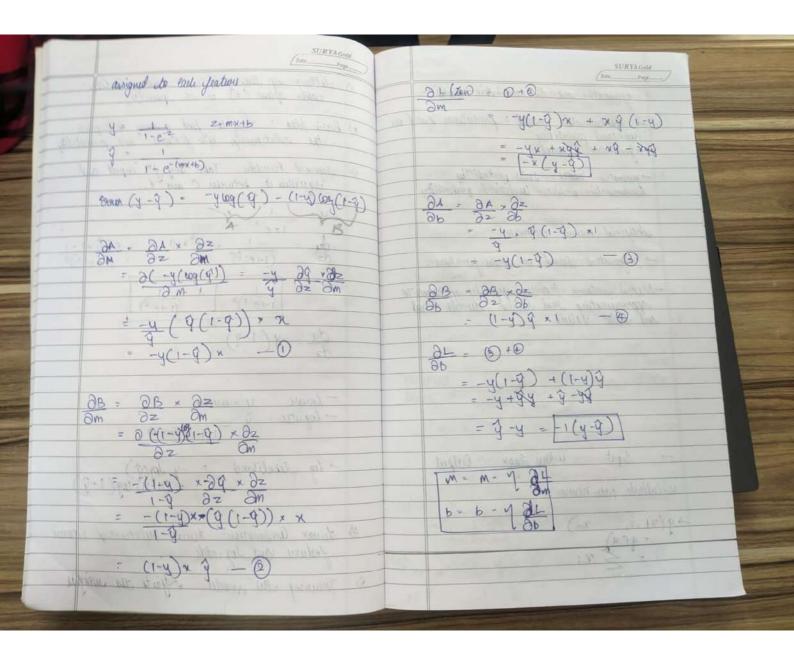


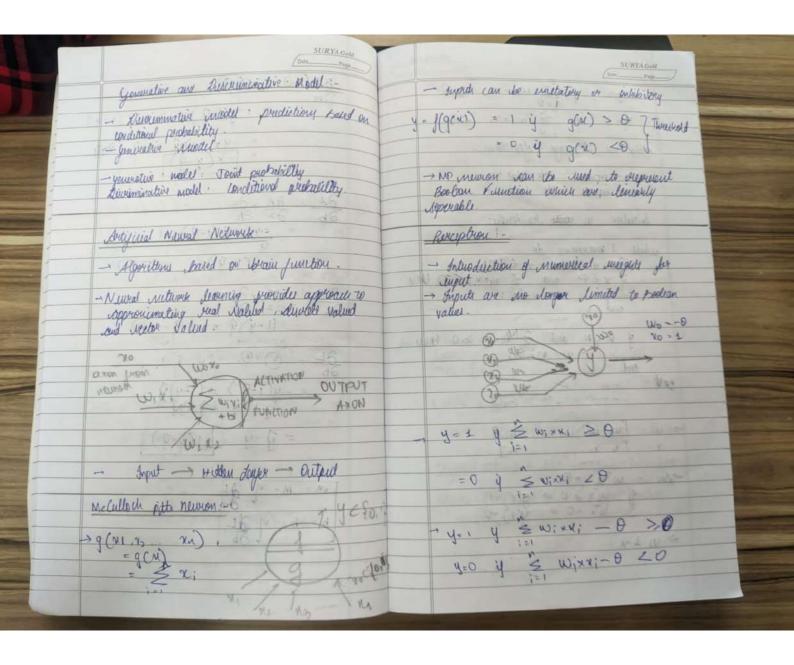


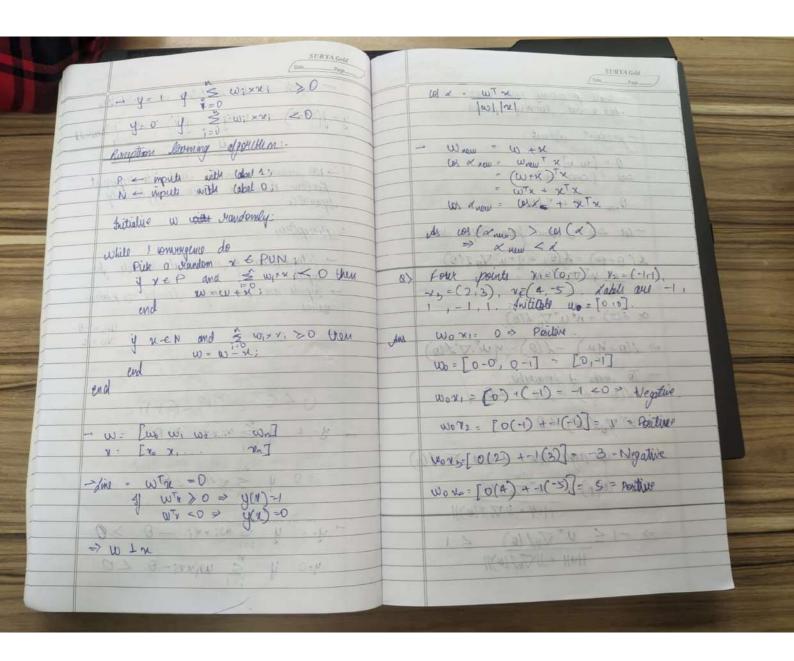


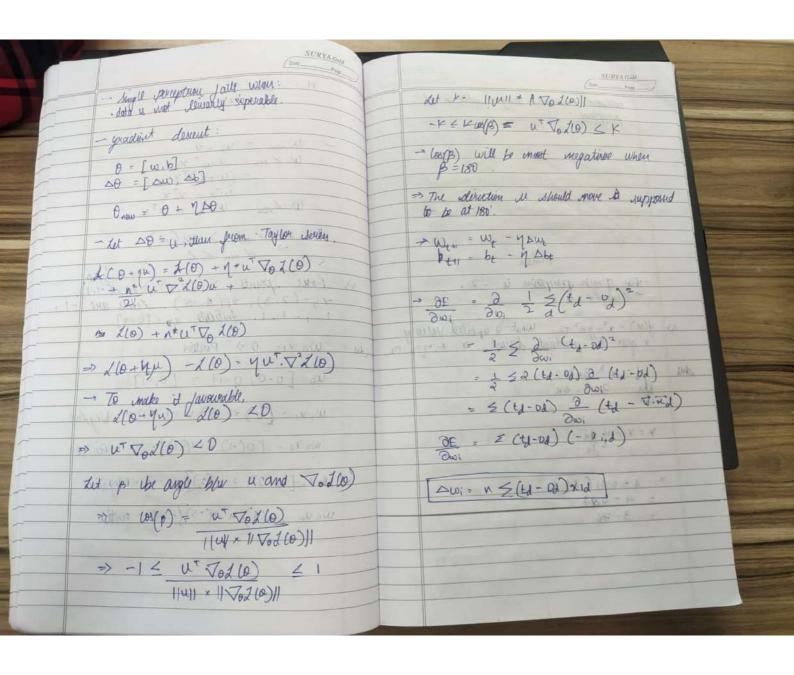


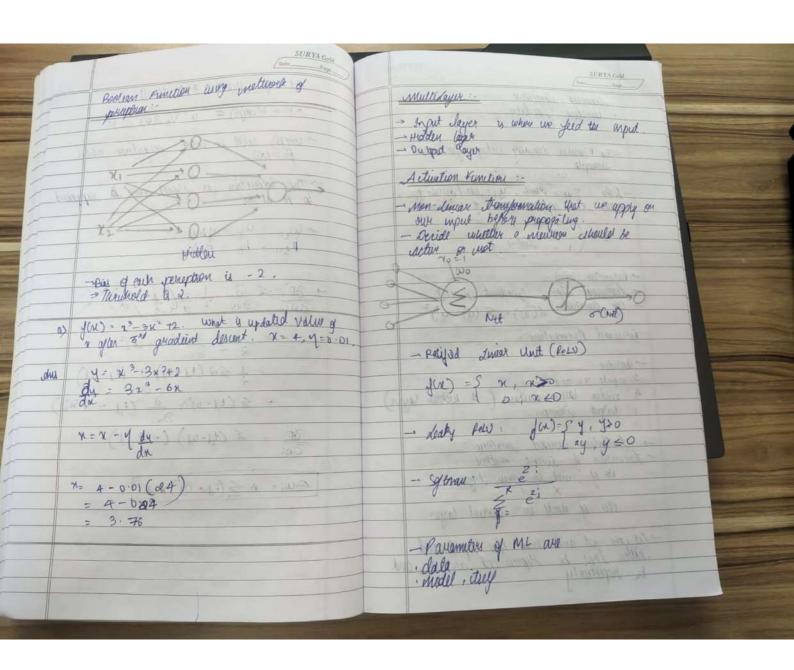


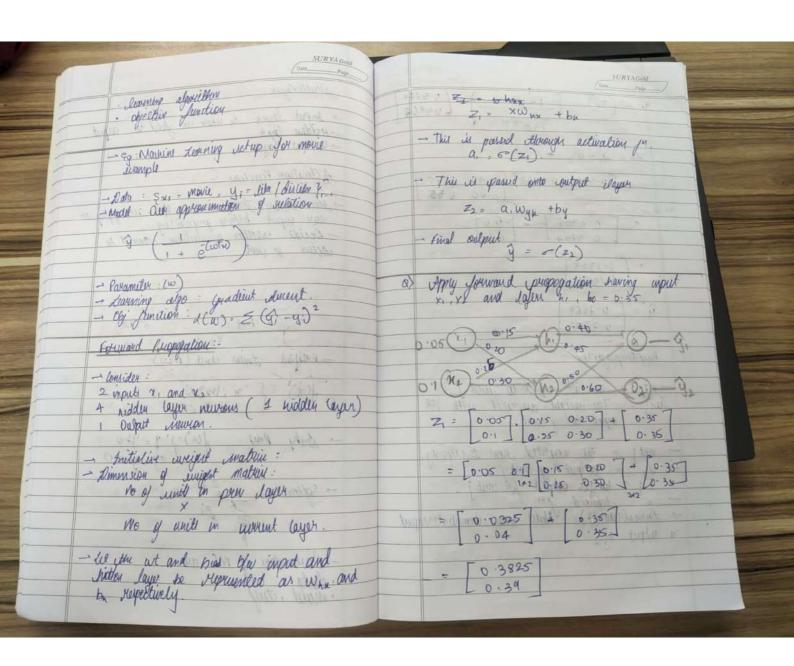


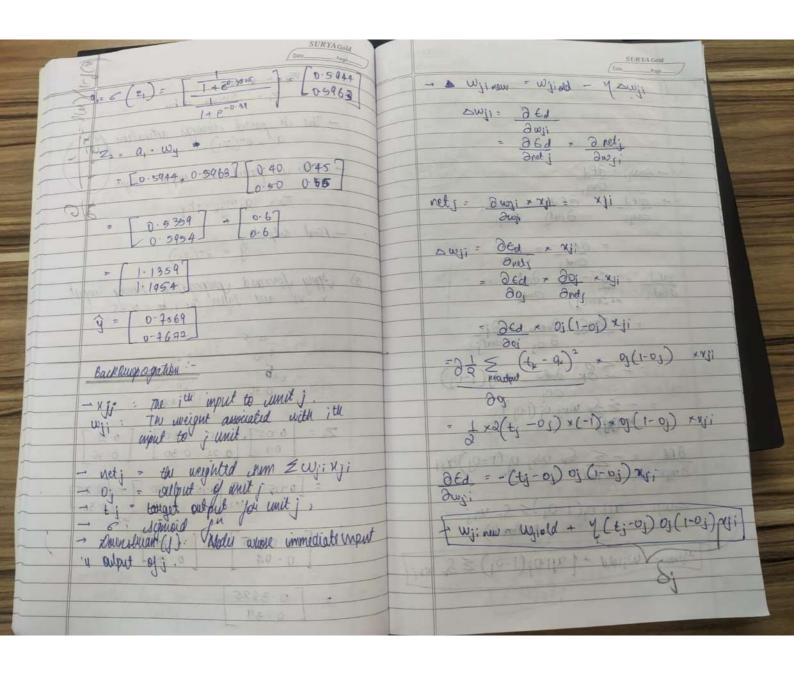


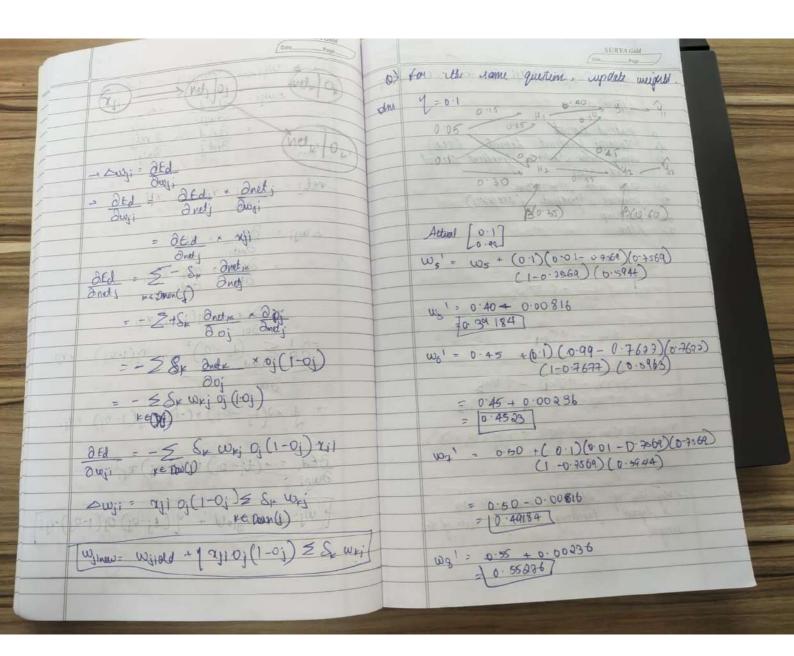












14 pro = 1 0) (100) Vii 46, -0, 0, (1-0) 0, (1-0) 0, - St E S + 9 0 g Tall with " Optimizers : - We - WL+ - No Of+ yradied sound Stockasti Gradeent Truent (SCO) Mini Balle Stockasti Gradeent Descent - Adaptive drawing thate wit greatent - Main weather a accumulation of ignered (Mb - SGD) 2) SIAD with momentum 3) Adaptive Gradent (MON GRAD) gradient in the denomination. Changes learning nate agreenizely 6) PMSPHOP - very old and state date sortime to affect 2) Adam learning grate Sao with momentum PMS Ruge Vt = YV + 1 VWt - foot mean square propogation V0=0 V1= YV0 - 17W4 - se - 15 + (1-8) 9,09t St= (1-8) gloge + Yst+ - 7/ - 17wg + 1 7wg - 72 Vo - 77 Vwg + 4 7wg = (1-4) gog + (1-8) 8 gog + 82 S++ Adam (Adaptive Moment Esternation) = V5 = 7 7w3 + 847w, + 7247w, + 73 V0 ~ Mantain Ve = B1 *VE-1 + (1-B1)+g= Adaption Gradient --St = B, 5 5 + (1-B2) = 92 - May idea of Ado Guad is to have an -> DW = - 1 V+ + g+ weight

One Page	SURYA Gild.
Beep Stacking - form of Mr. that makers computer to how from properties and understand the moreld from properties and understand the moreld - Hose various / law bias pick model completely - You various / each bias the model completely	12. man - m - y dt. - m - y [2x(wx+b-y)] - m - y [2x(wx+b-y)] - m - y [2x(wx+b-y) + 2 dw]
- Ideally dow variance, less total Regularization:	- Sw - 1 [2x(mxp, 1) +x] mx0
\rightarrow L1 and L2 regularization [1] $\parallel W_1 \parallel_{\pm} = \parallel W_1 \parallel + \parallel W_2 \parallel + \dots \parallel W_m \parallel$ (CASSO)	1) when = w = y 212 = w - y [2x (x+b-y) +2xw]
12 : (W , : w,2 + w,2 + wn2 (Pidge)	→ Date augmentation — Couly stepping → Disoport
- Low function with U : Low = Power $(y, \hat{y}) + \lambda = w $ $ w = w $ Low - Low $(y, \hat{y}) + \lambda = w $	-> CNN Lypically includes two operations, which son be therest of an feature lutrestons:
1000; 000 (314) + /2 (0)	- why not min. . Image an too big . Portions can change

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