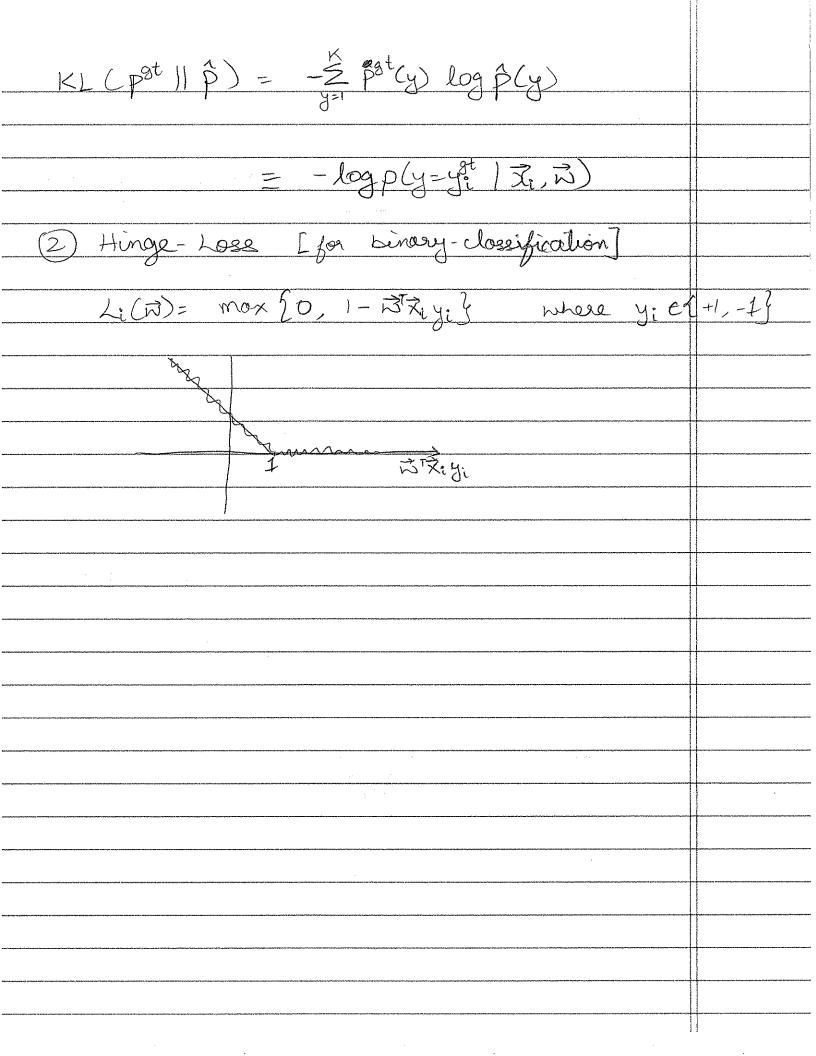
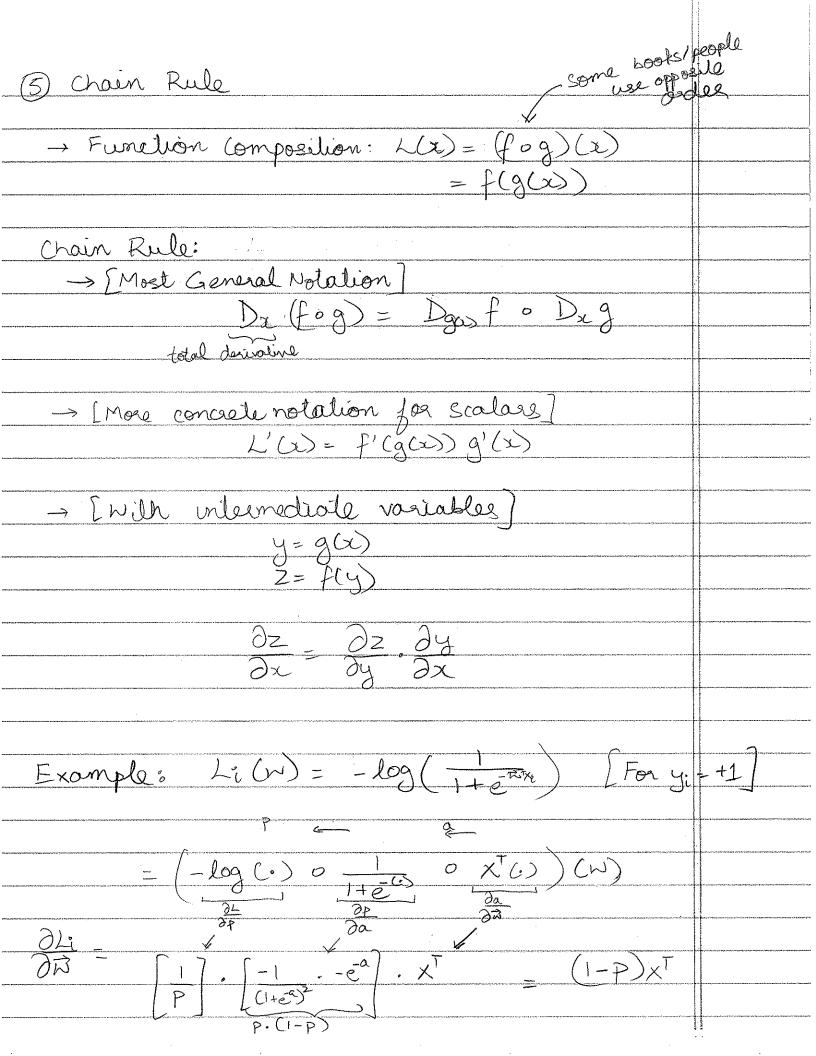


to mental transfer for the control of the control o	3
(3)	Loss Functions
	> functions of both parameters to Training data
photography in the language photography is the desired and the contract of the	
) Log-Loss / Caoss-Entropy / Moximum-Likelihood/ Ki-Divergence
	L(N; D) = \(\frac{2}{5}\) Li(\(\vert)\) \(\frac{1}{5}\) Decomposable Logs
	where Li (B) = -log Ply 1/Ze, B)
National or speciments below a grant constraint or the speciments of the	
	How much prob does your model assign to Go T lobele?
AAALA ÜLERÜLINGA AAALA ÜÜRINA AA	= regalise log-likelihood for
	Why is this called Gose-Entropy? And where is
A TOTAL CONTRACTOR OF THE CONT	Why is this called Cross-Entropy? And where is the Ki divergence coming in?
and the second s	Consider Multiclose-classification N/ 1-HOT encoding
e partie de la companya de la compan	Consider Multiclose-classification N/ 1-HOT encoding
	O P(y=1 x, rd)
Laboratoria de la companyo de la com	$\left[\begin{array}{c} 1 \\ 0 \\ 0 \end{array}\right]_{(XX)} \left[\begin{array}{c} 1 \\ 0 \end{array}\right]_{(XX)} \left[\begin{array}{c} 1 \\ 0 \end{array}\right]_{(XX)} \left[\begin{array}{c} 1$
	pot (y) P (y) [delta dietaibution] [Model dietaibution]



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(A)	Delour: Matrix/ Vector differentiation
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	Ra Se Ra
	Y OF OF OF OF
	M DY Tens
	$\left[\begin{array}{c} 3x \\ 3x \end{array}\right]$
	Convention: ∂y : numerator = dim 1 = col-vector
	29K
[Cradia	d) dy = [dy dy] denominator = dim 2 = 10m - vector
	S S
	[Jacobion Matrix] 20 1 - Digi
	77 7x3
	- L
	Every to prove: $\rightarrow \partial(\vec{n}^T\vec{x}) - [\partial(\vec{n}^T\vec{x})] - [\partial(\vec{n}^T\vec{x})]$
	$= X^{T}$
	→ O(N'AN) = 2NTA ON
	$\rightarrow g - A \times \partial g = A$



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\rightarrow	Multivariate Chain Rule
	g: Rd > Rm
veriferential and make the mark defined were the market of "and to be be before the market of the control of th	$g: \mathbb{R}^d \to \mathbb{R}^m$ $f: \mathbb{R}^m \to \mathbb{R}^k$
Advantage of the second	
A COLOR	$L(\vec{x}) = (f \circ g)(\vec{x})$
inchesische Bereiten Andre Germanschaft er der die Beleit Verseite auf Heiler im Fille der der der Angeleite d Bereiten der	
	$\vec{y} = g(\vec{x})$ $\vec{z} = f(\vec{y})$
	-> crain Rule: Dz (fog) = Dz of Dz (g)
	LEBELOEL JOHN NOWS
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kamandar jossévas evus aria varian magaran magaran a Apians an un	Visualize:
rencontrollering and renewal commission or was a second or will commission of the second delication of the second	
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	$\left \begin{array}{c} O(Z_1) - \left(\begin{array}{c} - \\ - \end{array} \right) \begin{array}{c} O(Z_1) \cdot \\ O(Z_2) \end{array} \right $
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an walla da quanta de antique da antique da product e en e valoridad de entre de la compansión de la compans	how my "knob" offacts intermoduate variable
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