Ban 1: Nochel, var dins di cur dir Weer x(1). taci: p(2"=1)= 9; la xs model clirateen de vay P(x1,20)=1-Gi la xs redal allatoen tehangaberray Hamligmoid: U(x)= 1 Constlur layinic legaessian g: = o (Wo-1 w, z'i) + w, z'i) 11+l (woiten >1+ w 2 12) han las la han enterpy clies:

varnois ations (i, yi): L= - [yi.log(yi) + (1-yi)/y (1-gi)] they Ar an les dirlien. L = -1 & [y, legig, + (1-y,) log (1-y,)] I) Trub du liam ham lass the tring luias w. dgi dw Gi - Gi' - Gi - Gi') $\frac{dL - - \left(\frac{y_i}{\sqrt{g_i}} - \frac{1 - g_i}{\sqrt{g_i}} \right)}{\sqrt{g_i}}$ tuci do (1) = (1) = FD. FA) e-x -1+e-x 1+e-x 1+e-x (1-1) = 1500 /1-00)] d (o (worunx) + w, xi) 11) Gi (1- Gi) = x21. 9. (1-g1.)

den dg; dus g; (1-gi) ol L = 9/1) (gi -yi) dun dur They saw le dir lieu. dL = 1 & (G,-g1) = = 1 = 2 [(g, -g;) $\frac{1}{N} = \frac{1}{1} \frac{1}{2} \frac{$ Bail:

taci: dL - dL dgi - gi-gi dgi

dw dgi dw g; (1-gi) dw Totin hain gr= j(wTx;) de' mais 15 xu' Extra. die witz s. taci. g. = 1(s). dy: - dy: - ds - dg: x Takin y= 162 noocho d 9i - g. (1-9i) (=) (dgi Si (1-Si) $\frac{G}{g_i} = \frac{1}{1-g_i} dg_i = ds$ Uplan 2 ps!:

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$$\frac{1}{1} \log \frac{1}{1} = \frac{1}{1} \log \frac{1}{1} = \frac{$$

Han entropy cheo. Xi then I dien clie lich, to de L= - (g log g + (1-g) log (1-g))

dL = 2i(g'-g) = xig-xig.

d2 = d (dL) = x,2g (1-g).

Tui. g ∈ (0,1) => g(1-g)>0 +g ∈(0,1)

=> xi g(1-g) >,0 \ xi, g (0,1)

· Douham lun hou chou hour schoy an hen ham lor.

* Ham MSE.

ru trên Action du l'en, tari

$$L = \frac{1}{2}(\hat{y} - y)^2$$

dL = dL .dg = (g-y) xi.g(1-g)

= -xi (g3 - (1+y)g2 + yg)

	Date):	No
di dui (dL) = dui (dui)	-x: (1(1-9)) (39-	2(119)9+
dui dui dwi			7 / /
7006: xi (g (1-g)	7,0 mlui pl	han tube	
Take xit clair cia -	(392 - 2(45)	g+9).	
	Ale d		
+111 g=0, toris -	392-29)=	9(2	-39) <
+111: g=0, tori: -	0	0	
The state of the s		The second second	
+112: g=1, +aci: -(3	g2 -49-11)	<0 k	en' 9 <=
		734	
già ti can. Mas hain	ions lucin d	wany , co	Hi'nh
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