$$f: X \rightarrow H$$

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Our. Cenerale sam-goyennelli F c pacupegenesulem P(f) ragollaeman (f1, f2, P1, P2) - rybambunenosullu, eau:

1)
$$g(x,z) \leq d_1 \Rightarrow IP_{f \in \mathcal{F}} [f(x) = f(z)] \Rightarrow P_1$$

2) $g(x,z) \Rightarrow d_2 \Rightarrow IP_{f \in \mathcal{F}} [f(x) = f(z)] \leq P_2$
 $d_1 \leq d_2 \qquad P_1 > P_2$

Min-hash (Paccin. nearrapel)

OFVERMENT - representes x C U = \{ U_1 \dots \tag{U}_1 \dots \tag{U}_1 \}

TT - representation of U

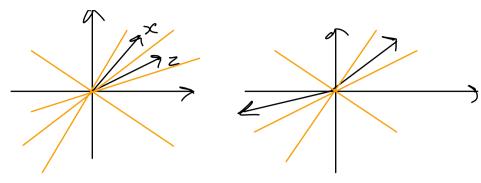
TT - bessecrecul cabbe no omnomento K

mente

N: O Vice Touconomurocomo 1 Usz1 Mucrospazell 2 U415 Umespall n-1 V10 Farou n 4152 Zurulo $f_{\pi}(A) = \min \{ \mathcal{K}(i) \mid U : \epsilon A \}$ f.("Forme nocument unercoop") = 1 11 Sygem summpelamban 8(A,B)= 1- 120B)

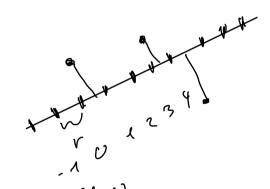
Voceveguere precomanuelle

F = Efw(x)= sign < w, x> 1 werd }

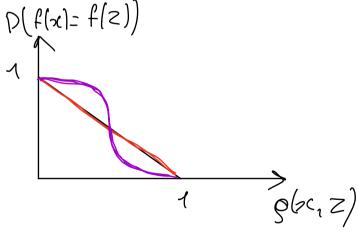


Elvingole pacconcrevene

$$\mathcal{F} = \mathcal{F} + \mathcal{F} + \mathcal{F} = \left[\frac{\langle w, x \rangle + \delta}{v} \right] \left[w \in \mathbb{R}^d, b \in [0, v] \right]$$



$$\omega \sim \mathcal{N}(0, T)$$
 $\ell \sim \mathcal{U}[v, t)$



Kannagensus x zen - payrengela

$$g(x) = \left(f_1(x), \dots, f_m(x)\right)$$

$$P[f_{\alpha}|x] = f_{\alpha}(z)J = P$$

$$p(g(x) = g(z)) = p^{M}$$

$$f_{\alpha}(x) = f_{\alpha}(x) = f_{\alpha}(x)$$

$$f_{\alpha}(x) = f_{\alpha}(x) = f_{\alpha}(x)$$

$$f_{\alpha}(x) = f_{\alpha}(x) = f_{\alpha}(x)$$

NSW Novigable small world

1) Déprése agrantegé bepreuntly V & G 2) Byenne: greger coeegen n'unem;

g (v',u) < g (v,u)

Eau manai coced namifico, nepreseguis

Ucurentzejem seymbulcuropun.

Dotabilerell hereunds u Tigens nullu yrado nexomeros pazuero.

Mysburcmapus > C(U)

D(u) = C(u) V & coeegevere lepruemonte gus boex V & C(u) }

Coequises u c Suiscourselle coequises sur D(u)

HNSW

