VO2-OSNOUNI LONCEPTI

ANA GEND 0036510069  $X = \{0,1\}^3$   $h(x_1\theta) = 1\{\theta_{11} \le x_1 \le \theta_{12}\}, (\theta_{21} \le x_2 \le \theta_{12}), (\theta_{31} \le x_3 \le \theta_{32})\}$   $\theta \in \mathbb{R}$   $H = \{0,1\}^3$   $\theta \in \mathbb{R}$   $\theta $\theta \in \mathbb{R$ 

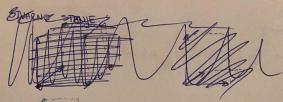
 $N = 6 \text{ step obmoscuih primera 12 } \mathbb{R}^3$   $D = \frac{7}{3} \left( x^{(i)}, y^{(i)} \right)^{\frac{3}{3}} = \frac{7}{3} \left( (0,0,0), 0), ((1,0,0), 0), ((1,0,0), 1), ((1,0,0), 1), ((0,0), 1), ($ 

E(h ID)= ?

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L(FN)=1, L(FP)=0.5 -> FN: L(1,0), FP: L(0,1)

E(hID)= 1 21(h(x)-y)|



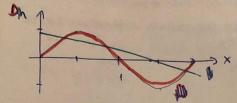
FP 1 = 6. E(FP) = 1.0, 5 = 12 = E(h 10) MIN

 $\frac{1}{6}$   $\frac{1}{4}$   $\frac{1}{100}$   $\frac{3}{4}$  = E(h1D) MAX

12 < E(410) < 34

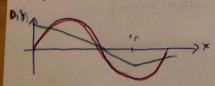
[13] f= sim (=x), D= {(0,20,0,70+), (0,0,1), (10), (10,-1), (2,0)}

$$\phi = \begin{bmatrix} 1 & 0.21 \\ 1 & 0.6 \\ 1 & 1.5 \end{bmatrix} \quad y = \begin{bmatrix} 0.707 \\ 1 \\ 0 \\ -1 \\ 0 \end{bmatrix} \qquad \vec{w} = (\sqrt{7}q)^{-1} \phi^{-1} y = \begin{bmatrix} 0.3433 \\ -0.1637 \end{bmatrix} \\
h(x) = w_0 + w_1 x = 0.3435 - 0.7637 \times 10^{-1}$$



$$\begin{pmatrix}
(1) & (1) & (1) & (1) & (2) & (3) & (3) & (4) & ($$

w = [0.833 -0.2818 -0416 -0.3461 0.2475]T h(x)= 0.8330 -0.2818x - a4115x2 -0.3461x3 + 0.2445x4



NAJPRIKLADNIJI JE MODEL POD C) JERZ IMA MAJMANJU KUADRATNU POGRESHU I NAJBO LIE PRATI FUNKCIJU.

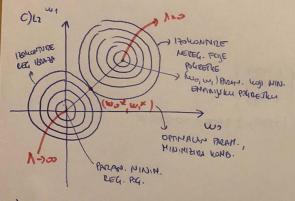
a) SURHA REGULARIZACIJE - SPRJEČAVANJE PREMAUČENOSTI MODELA TAKO DA OGRANICI MO DAST VRIJEDNOSTI PARAM.

TEMELJI SE MA PRETPOSTACICI: STO JE LIN MODEL SLOSENIJI IMA VEĆE
VELJEDNOSTI PARAM. ZATO KLENJANAMO HIDTERE
S VELIKIM PARAM. (U FUNKC. POGRESKE KGREDUJED
MJEMU SLOJENOSTI MODELA).

b) PREDNOST REG. MODELA JE DA GA JE TETE PRENAUTION. POSEBNO DOLATI.

DO ITRATAJA KUDA IMAMO MALO PRIMJENA ZA UTENJE.

TALIODER, POBOSLJAVA NUMERITUM STABILANOST.

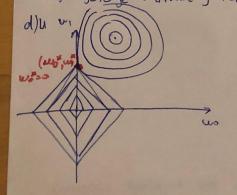


=) OPTIMALAND FRAM. DUNGER WAS SEGULICE HORONTUBA. MANJE OP FARAM GOJI KIN. FOLIM FOR FOR CHEECE PER)

=) LZ-REG. WE MODE REJULTIMAN RIJETULM MODELLIMA JEA TO BI SE OPTIM. PARAM. MODEL

NAMAZITI NA WI OSI. LZ YAZNJAVA TEZINE PROPORCIONARNO AJIHOWA IZWOSA.

=) LZ DAJE RJETONE U ZATVORENOJ FORMI.



=) 12040 MPLEE CI IMAJU LUADRATUI OBLIL.
UJEROJATNOST DA SE SJEW NA (IU BELLU)
OSI LUNDRATHO SUSTANA (WO, WI).

-) look

=) this returning UFAIN MODELINA ..

[2.3.] VO4

(2.3.) VO4

(2.3.) VO4

(3.4.) (x) = m+1(4.5.)  $(x+1) \times (m+1)$ (5.6.)  $(x+1) \times (m+1)$ (6.6.)  $(x+1) \times (m+1)$ (7.6.)  $(x+1) \times (m+1)$ (8.6.)  $(x+1) \times (m+1)$ (9.6.)  $(x+1) \times (m+1)$ (9.6.)  $(x+1) \times (m+1)$ (1.6.)  $(x+1) \times (m+1)$ (1.6.)  $(x+1) \times (m+1)$ (2.6.)  $(x+1) \times (m+1)$ (3.6.)  $(x+1) \times (m+1)$ (4.6.)  $(x+1) \times (m+1)$ (5.6.)  $(x+1) \times (m+1)$ (6.6.)  $(x+1) \times (m+1)$ (7.6.)  $(x+1) \times (m+1)$ (8.6.)  $(x+1) \times (m+1)$ (8.6.)  $(x+1) \times (m+1)$ (9.6.)  $(x+1) \times (m+1)$ (1.6.)  $(x+1) \times (m+1)$