MENTION ESL BIG PICTURE OPIC Organin 1/2/16/11

Yi 6/U points on + HP 70 DIVIDING HR (W/X, +Wo) >+/

1/WII - 1/WH (W/X) - 1 - CONSTRAINT GeDW DUAL: argmax \(\frac{1}{2} \times \chi, \lambda; \quad \frac{1}{2} \times \frac{1}{2} \times \chi, \lambda; \quad \frac{1}{2} \times \frac{ W= E, X, 4, x; LOTS OF VARIATIONS OF SUM PLUS INTO QUADPROS AND EXPERIMENT. OSOFT MARSIN + EE, argmin 1/2/1/11 . s.t 4, (wx, +Wo)>1-E, WHY? NEED NEAR L.S. E, >0 OUT IF MORE POINTS CROSS THENGAD 2) ONE CLASS SUM EXAMPLES IN PROTECT NO -VE'S DIATRIBUM OFFECTION REGIONS COUNT ONTA 14+1 3) INLLER OCTECTION

M = (WTX + WO) // W// the trever-or hyperplane goes r= 4; (W'X; + Wo)/ 1/W// we want to makinge the margin y, (w/2,+Wo)/11W11 >p V1

MENTION ESL BIG PICTURE OPIC Organin /2/1W/1 yi ρ 15 destares

6/υ points on + HP 70 DIVIDING HE

1/ (ω/Δ, +ω) >+/

1/ (ω/Δ, +ω) >+ GEOW BUAL: argmax \(\frac{1}{2} \times \chi, \lambda; \quad \frac{1}{3} \times \frac{1}{3} \times \chi, \lambda; \quad \frac{1}{3} \times - W= & X; 4; x; LOTS OF VARIATIONS OF SUM PLUS INTO QUADPROS AND EXPERIMENT. OSOFT MARSIN TEE, argmin 1/2/1/11 s.t 4, (wx, two) 21-E, VU, Uo, E NERD NERD L.S. E, >0 OUT IF MORE POINTS CROSS THENGAD 2) ONE CLASS SUM EXAMPLES IN PROJECT NO -VE'S 2) RETRIEVAL PRODERS REGION REGIONS COUNT DATA

1 + + + 3) INLLER OFFECTION

SGMI-SUPERVISED TRAWSDUCHON WAICH ONE WATT X UNLAUGLEU? DIFFICULT TO FIND LADELS ON LABER MANSDUGTON OLOGNAN STUDIO @ PREDICTING (RAVE) IN THIS CLASS 3) PERSONAL INFO MANAGEMEN 1/2/1/1/2 5, t. y; (W x; +40) > 1 g; (W 7x; + 40) > 1 No LONGER CONVEX. 91 E(-1, +1) V

THE REPORT OF THE PARTY OF THE

Shirt M. M.

TRANSFER COARNING $X \rightarrow 7''$ SUVREE, TARGET ELGPHANTS US STIEGP US ASSUMPTION SOURCE IS CASY TAGET "HARD" HARD FOR MANY REASON: O FOW LOBOS a dethill problem HOW CAN SURCE TARGET OFFER Con MOANTATION AGENTATION P, (X) = P-(X) Ps(4/X) FR-(4/X) argmin 2/14/12 + C \(\xi\); $S,t \in \{, 7,0 \forall j \}$ $y, f^{s}(x,) + y, (w^{T}x, +\omega_{0}) \geq 1$ $f(x_{i}) = f^{s}(x_{i}) + U_{i}x_{i} + \omega_{0}$

) S

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ALL OF THIS ASSUMU L.S. argman ZZ L; L; Y; Y; N; N; $X_{i} = \begin{bmatrix} 1 \\ 2 \end{bmatrix}$ X, 24. [1] LINEAR KEANGI (x; x,) = 16 POLYNOMIAL KLANEL $\left\{ \begin{bmatrix} X_{1} & X_{12} \end{bmatrix} \begin{bmatrix} X_{21} \\ X_{22} \end{bmatrix} \right\}$ $=(X_{11}X_{21}+X_{12}X_{22})$ $= (X_{11}, X_{21})^{2} + 2 \times_{11} X_{21} \times_{12} X_{22} + (X_{12} X_{22})^{2}$ $(X_{11})^{2}(X_{21})^{2} + \sqrt{2}X_{11}X_{12}\sqrt{2}X_{21}X_{22} +$ (X12) x (QX22) $= \left[X_{11}^{2} \sqrt{2} X_{11} X_{12} X_{12} \right] \left[X_{21}^{2} \sqrt{2} X_{21} X_{22} \right]$ $= \emptyset(x_i) \cdot \emptyset(x_j)$

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MANG REANEL

POLYNOMIAL REANEL

(AUSSIAN REANEL

K(21, 2) = M-2;

AMAZING WHAT'S THE (ATCH)

(D) SHATTERN & A SET: - SCIDES

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exists some

DHOW TO CHOOSE THE RIGHT RELATE KERNEL AZ (KNOWNENT) arg min (K(x, 34), 4, 4^T) AL THE SAME CABEL OFFE SIM 1, OTHER

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