Exercise 3 IML

Fyal Perets 209541903 oranin 11 wll s.t t: y; (< w, x; 7+b) >1 : Hard Syn of 3,0 0 0, 2 1,00/11 0, A 3,00 103~5 1.33 : fr. 1,00/12 3,120 -1 1,00/12 1,00/1 3: (< N, X; 7+b) >1 = - 7: (< V, X; 7+b) = -1 = -1 = -1 (=) -y. (X:W-b)<-1 (=) -y.X.W-y.b<-1 $Y = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$ $Y = \begin{bmatrix} 1 \\ 1$ = WTW 2,67 aramin 1/m/1 2,50 arghin VT D = argnin b Q b o O b = argnin V Q V 2 av

: Soft SVM 02 agmin 2 | with the 26; s.t 4: 4: 4: 4: x:72+4, 1 &: 20 8.4.2 10 D8 7.554 Jhinge e 28 J-w · 4: 24, x:77-44, 1 6:20 1(1)) 1 mge (4; < m, X; >) 1 1.22 9.22 1.33 Miller: 62 = 1 1/164; KMXX) H: 10/1

estimators. le likelihod 1.voj. : le just p.o.03 1)K. L. 3 : .y.,), kelihood ? ? 3 (8)] (0 | X, y) = fx, y (0 (1 (X; y) =) = ft fx, y (X; y) To the time of time of time of the time of tim Les july 100 million is look for in John in Jo $= \sum_{i=1}^{n} \log \left(\mathcal{N}(X_i | y_{y_i}, y_{z_i}) + \log \left(\mathcal{N}(X_i | y_{y_i}, y_{z_i}) \right) \right)$ $= \frac{1}{1000} \left(\frac{1}{(291)^{100}} \cdot \exp(-\frac{1}{2}(x_1 - y_1)^{100}) \cdot (x_1 - y_1)^{100} \cdot \log(y_1) \right)$ $= \sum_{i=1}^{n} \left(\frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{1}{2} \sqrt{\frac{1}{2}} \sqrt{\frac{1}{2}} \right) - \frac{1}{2} \int_{\partial Q} \left(\frac{1}{2} \sqrt{\frac{1}{2}} - \frac{$





