

Kneoms ++ k mediods 1. Select fixet random pont Knewstt 2. Select facturet sandom pont 3. Silent he forther rondon Pont among he open two parts? Knedioob Total (cont) words in document in coline (3) Paifer Tanson maron Tan won Shonghin Sapporo w Sappolo Osaka Tai wan Paison Paison Sappolo terset

Support Vector Mochine

Australia

CCCCCCCCCC

Montestanto

Control

But a close to c,

But a close to c, New obsulting The shortest dutore between the observation and the thushold on called the margin. When we use the thurboard that gives as the largest margin to make claisifications. ve are wing a majornal margin clarisfiers 00000 00000 rapinal margin classifu are super sensiture to outline and fut makes them phille lane. allow mindashfation. chooing a hundrout hat allows mischesufation in an example of Bray/Variance Tradeoff but Plague ay of maching Cearry muhold. 00000 000000 low books and high valiance.

frushol...

000000 high bias and low Variouse when we allow involorsification? the dutoce between the observation and the thurshold in callet 80/1 marigin How do ve know that his soft mover in better tran Amon we we can validation to determine how many of more we we can validation to allow minde of myselvalipations and observation to allow minde of working to get he best classification when you have to get he best classification.

3-d- Plane yed - hypuplare. Support Vector Classifur Sear fully Coof because they can hardle overlappy classification they can hardle overlappy classification -9000 00000 0000-Dhug in just eight Support Vector Michines Dosoge - Dosage Alex Dolly 3 My rot Trouge In older to make the mathematics boundle, hipport Vector machines we senting Called Keurel I to the machines we senting alled keurel fretien to Extendelly find in high Support vector classification in high Polynamine Kurrel The Relationship better best four heldring hipport are and for bripport Viclor Clarsfu, de gage 5 V clasifi SV darifi d=3 dosyv good value of d'infant fran closs validation Rodial Kunel (Radial Briss Justin) Kund.

$$S_{1} = \begin{pmatrix} 2 \\ 1 \end{pmatrix}$$

$$S_{1} = \begin{pmatrix} 2 \\ 1 \end{pmatrix}$$

$$S_{1} = \begin{pmatrix} 4 \\ 1 \end{pmatrix}$$

$$S_{1$$

 $\omega = -3.5(2) + 2(3)$

 $\begin{pmatrix} -7 \\ +3.5 \\ -3.5 \end{pmatrix}$