

Kernel Methods cont.

$$X X^T = \begin{pmatrix} \equiv \\ \equiv \\ \equiv \\ \equiv \\ \equiv \\ \equiv \\ \equiv \end{pmatrix} \begin{pmatrix} ||||| \\ ||||| \\ ||||| \\ ||||| \\ ||||| \\ ||||| \\ ||||| \end{pmatrix}$$

$$(X X^T)_{ij} = \langle x_i, x_j \rangle$$

$$X X^T = K$$

K -NU:

$$K = \frac{1}{2} \left(\frac{1}{2} \right)^2$$

$$d(y, x_i) =$$

$$\|y - x_i\|^2 = \langle y, y \rangle$$

$$+ \langle x_i, x_i \rangle - 2 \langle x, y_i \rangle$$





A series of horizontal blue lines for writing, spanning the width of the page.