$$K(\boldsymbol{x}_i, \boldsymbol{x}_j)$$

Name	Function
Polynomial	$(\|\boldsymbol{x}_i{}^T \boldsymbol{x}_j\|+d)^p$
Gaussian radial basis	$exp(-\|\boldsymbol{x}_i - \boldsymbol{x}_j\|^2/2\sigma^2)$
Sigmoid	$tanh(a\|\boldsymbol{x}_i{}^T \boldsymbol{x}_j\|+d)$