

c) define
$$K(x_i,x_i) = \phi(x_i)^T \hat{D}\phi(x_i)$$

=) Kernel Matrix: ITT = K & for training data &

=> test benel vector: ITM px = Kx = kx = kx = kx

=) test kernel: P# [Ox = K** < kernel blun

$$\frac{1}{3}\hat{U}_{*} = K_{*}^{T}(K + 6^{2}\Gamma)^{-1}Y$$

$$\frac{1}{3}\hat{U}_{*} = K_{*}^{T}(K + 6^{2}\Gamma)^{-1}K_{*}$$

function

thun,

linear courbo of kernels w/ weights Zi

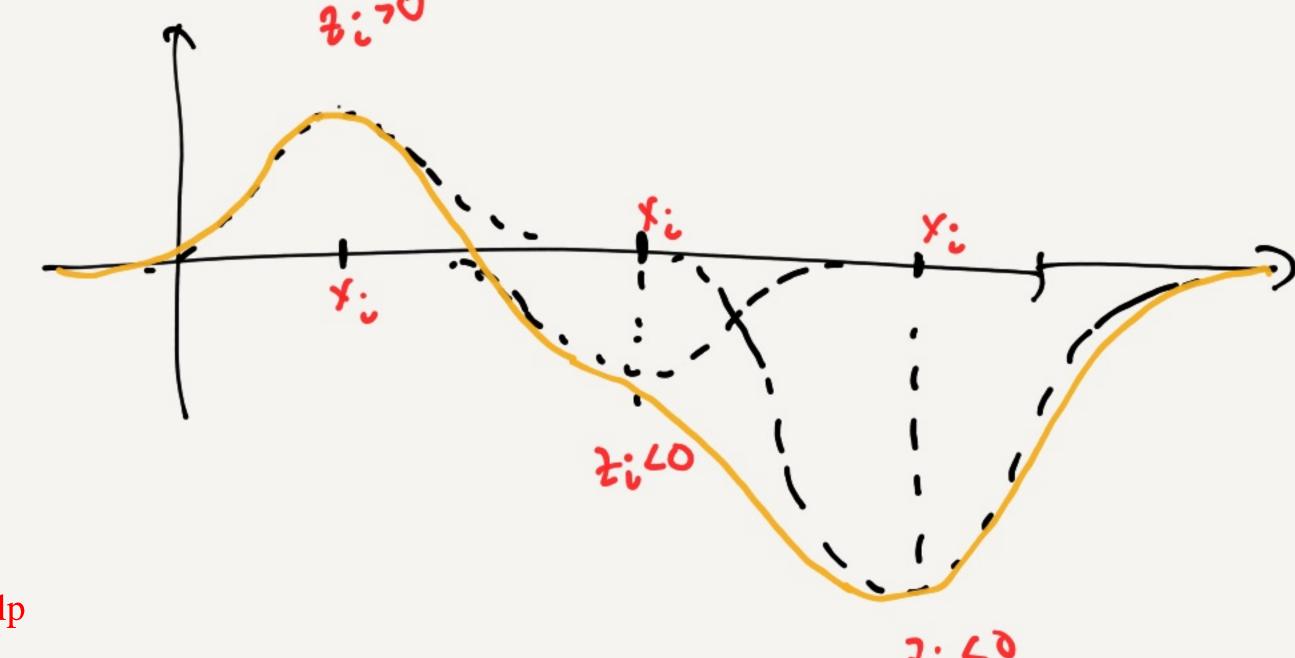
Suppose K(xi,xi)= xixi

$$=) \hat{\mu}_{+} = \frac{7}{2} \frac{2}{5} \cdot (x_{i}^{T} x_{*}) = \left(\frac{7}{2} \frac{2}{5} \cdot x_{i}^{T}\right) x_{*} = \frac{3}{5} \cdot (x_{i}^{T} x_{*}) = \left(\frac{7}{2} \frac{2}{5} \cdot x_{i}^{T}\right) x_{*} = \frac{3}{5} \cdot (x_{i}^{T} x_{*}) = \left(\frac{7}{2} \frac{2}{5} \cdot x_{i}^{T}\right) x_{*} = \frac{3}{5} \cdot (x_{i}^{T} x_{*}) = \left(\frac{7}{2} \frac{2}{5} \cdot x_{i}^{T}\right) x_{*} = \frac{3}{5} \cdot (x_{i}^{T} x_{*}) = \left(\frac{7}{2} \frac{2}{5} \cdot x_{i}^{T}\right) x_{*} = \frac{3}{5} \cdot (x_{i}^{T} x_{*}) = \left(\frac{7}{2} \frac{2}{5} \cdot x_{i}^{T}\right) x_{*} = \frac{3}{5} \cdot (x_{i}^{T} x_{*}) = \left(\frac{7}{2} \frac{2}{5} \cdot x_{i}^{T}\right) x_{*} = \frac{3}{5} \cdot (x_{i}^{T} x_{*}) = \left(\frac{7}{2} \frac{2}{5} \cdot x_{i}^{T}\right) x_{*} = \frac{3}{5} \cdot (x_{i}^{T} x_{*}) = \left(\frac{7}{2} \frac{2}{5} \cdot x_{i}^{T}\right) x_{*} = \frac{3}{5} \cdot (x_{i}^{T} x_{*}) = \left(\frac{7}{2} \frac{2}{5} \cdot x_{i}^{T}\right) x_{*} = \frac{3}{5} \cdot (x_{i}^{T} x_{*}) = \left(\frac{7}{2} \frac{2}{5} \cdot x_{i}^{T}\right) x_{*} = \frac{3}{5} \cdot (x_{i}^{T} x_{*}) = \left(\frac{7}{2} \frac{2}{5} \cdot x_{i}^{T}\right) x_{*} = \frac{3}{5} \cdot (x_{i}^{T} x_{*}) = \frac{3}{5} \cdot (x$$

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Gaussian process = privr on functions where every subset of x's are m.v. Gaussian w/ covariance based on bernel function.



Sullate ((xi,xi)= (xi,xi+1)2 =) $\int_{0}^{\infty} 4^{-2} \frac{7}{2} 3i \left(x_{i}^{T}x_{*} + 1\right)^{2} = \frac{7}{2} 2i \left(x_{*}^{T}x_{i}\right)^{2} + 2x_{i}^{T}x_{*} + 1$ $= \frac{7}{5} \frac{1}{5} i \left(\frac{1}{5} \frac{1}{5} x_{i} x_{i} x_{i} x_{i} x_{*} + 2 x_{i} x_{*} + 1 \right) = \frac{1}{5} i \left(\frac{7}{5} \frac{1}{5} i x_{i} x_{i} x_{i} x_{i} x_{i} x_{i} x_{i} x_{*} + 2 x_{i} x_{*} x_{*} + 1 \right) = \frac{1}{5} i \left(\frac{7}{5} \frac{1}{5} i x_{i} x_{*} + 2 x_{i} x_{*} x_{i} x_{i}$