





K-NN estmatus

- 1) Select an inital whome around x to estimate p(x)
- © Grav he undow ontil k samples! Gall inside of he

-> R is he region w/ he NN of x

(2) $\rho_n(x) = \frac{k/n}{V}$

K-ULLs for classification

 $\rho(\omega; |x) = \frac{ki}{K}$

{ (×1, y1,), (×2, y2), ... (×η, yn) } ω∈ ξ1, z, 33

dos dre, due, du

Classify x_i $||x-x_i||_2^2 = d_i$ $||x-x_i||_2^2 = d_i$ $d_i = d_i$