week 7 => C.A Non-Parametric Estimation > Only use the dota to come up with the model Dota Orien Modelling tor a pole For a model

g(x, y) To learn about a variable w/o making Section 4 To learn about a pattern w/o making assumptions on it assumptions on it "Parametric" vs "Non-Parametric" "Parametric" means ue assume a shape or Structure to describe the dota, up to a Firite number of parameters $\frac{E \times 1}{X} \times \sim N(M, \sigma^2)$ Exz x ~ Exp(M)

Ex3 Regression (= pattern) $V = B_0 + B_1 \times$ In M(E: $B = arg nex \stackrel{\sim}{S} log \leftarrow (r, (B))$ Residuels $f(B) = y_i - Bx_i$ (ex) $f(f) = N(0, \sigma^2) - y pdf gf E$ KDE'S Sample points -> kernels (x:)
Scaling Factor -> h (handwidth) (bu in R K (x - x:) -> k is the templace dist=
(h) b (i.e) normal, uniform efc