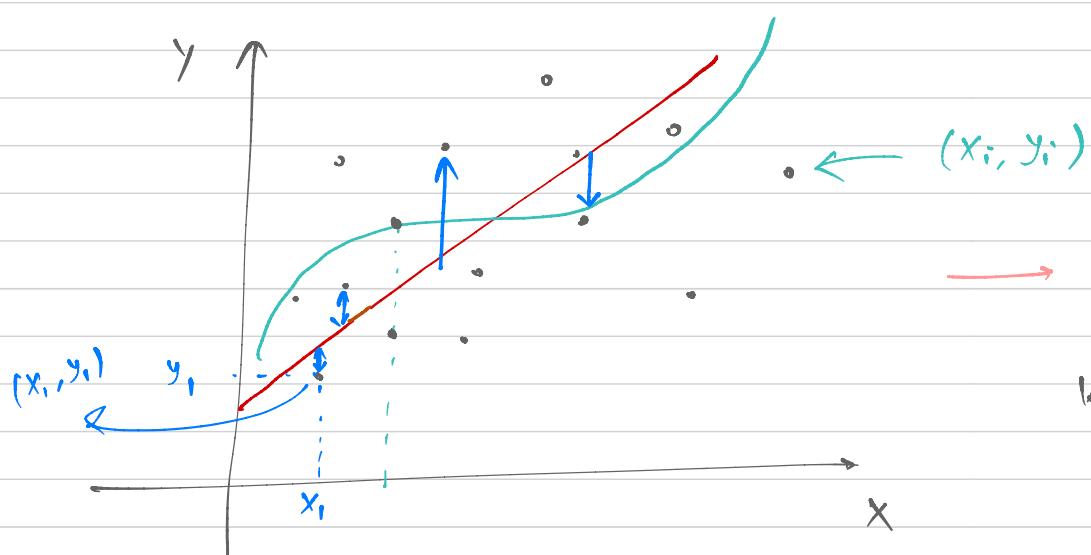


Lecture 23

Curve fitting & interpolation



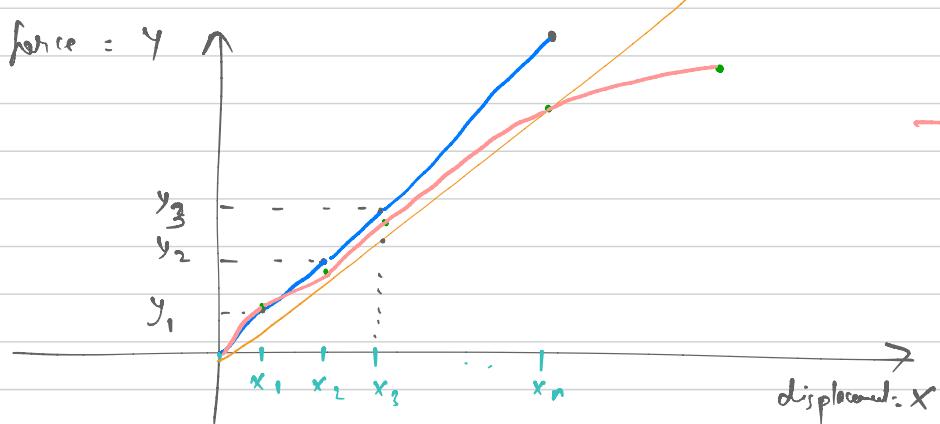
→ Curve fitting

least squares

→ linear least square

→ polynomial least square

→ nonlinear (exp, log, tanh)



Suppose you have very complex model

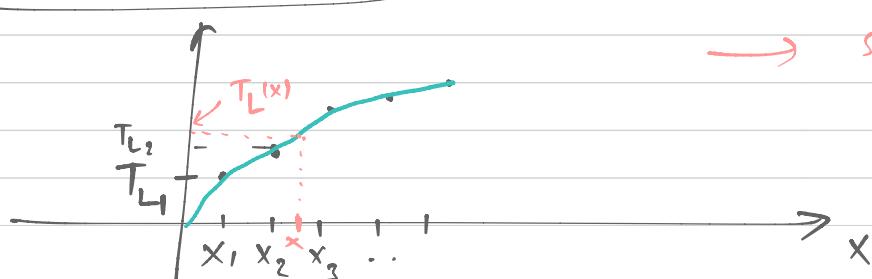
Temperature

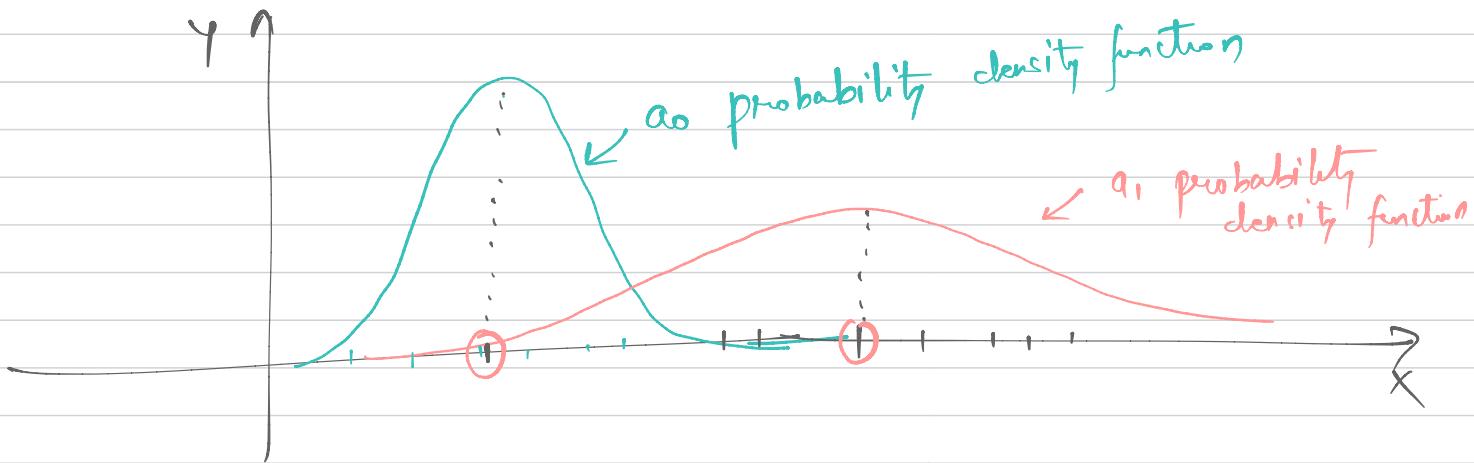
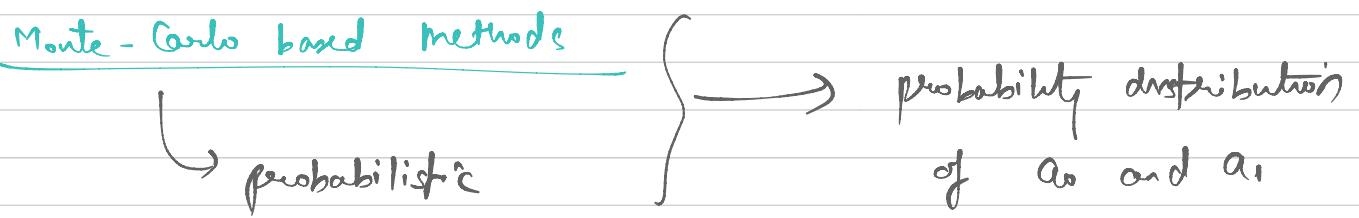
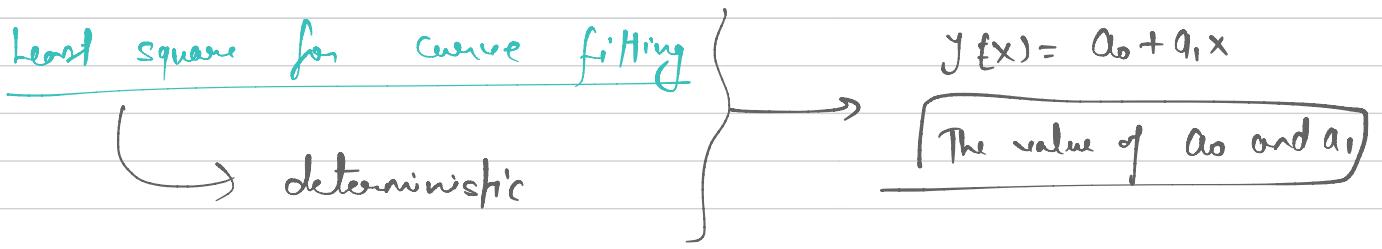
$$-k\alpha \frac{d^2T}{dx^2} = q_{\text{ent}}$$



temperature free T_L

→ Surrogate model





Neural Network

Preliminary statistics

