CLASSIFICATION & Regression

PROBABILISTIC VIEW of LINEAR REGIESSION

Classification

Why not linear Regression?

logistic Regressions

METHOD: Newton's METHOD

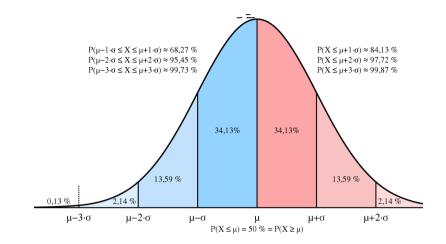
REUL LEAST Strangs

Do

why?

GAUSSIAN OR NORMAL DISTRIBUTION

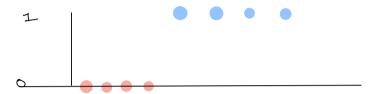
WRITE $E^{(i)} \sim N(\mu, \sigma^2)$ $P(2; \mu, \sigma^2) = \frac{1}{\sigma \sqrt{2\pi}} \exp\left\{\frac{(2-\mu)^2}{2\sigma^2}\right\}$



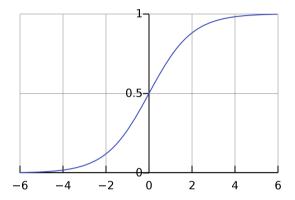
Likelihoods Among many Juturostran, Pick most likely one

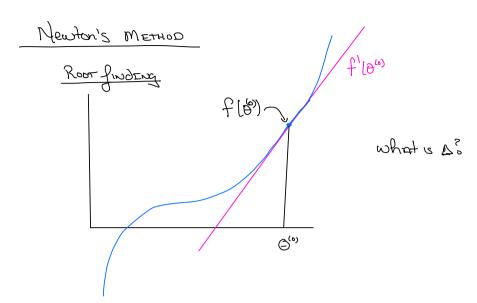
J(b) =

CLASSIFICATION



SAME RECIPE AS INFAR Regession!





to floo minimum,

Rough Companison

METHOD

Per HERRINON Compute Steps to Grave E2