Continuous Valved data & Baye's Rule
So far, we've been seeing Categorical data, what if we here Continuous later? Sometimes Situation warrant using alternate techniques: -> we assume normal/gaussian distribution, ->
alternate techniques: -> We assume normal/gaussian distribution, ->
probability of (x/y)
P(n/y) = 1 e 25 2 mg/ var p(n/y) = 1 e 25 (n-m) 5 (n-m
P(n/y) = 1 e 25 2 mg/ var  P(n/y) = 0   D= dimentionality of data
D= dimentionality of data  = cov most of data 1st = determi  N= votr of mans of features
Bayes law:
i) ne calculate (m, o) for a particular class/feature.
Bayes law:  I) we calculate (u, o) for a particular class/feature.  2) we thus god p(nly) we want p(y x)  3) we use bayes law!: p(y x) = p(y) (p(nly)) I kelphood of yoursating or yours
poskrior p(n)  evidence [p of y in general]
(chis independent) i. of samples that have
Maire Bayes Prob. Chris independent: ignore it doubt diretty from
Naive Bayes Prob. Joss independent: ignore it get directly from some an assumption: all features are conditionally independent (no dependency in teatures)  The pendent of the pendency in teatures are approximation as we're approximating the numerous based and the
(one more veight formula, check slide 26)  We're approximating the numerator-based on the conditionally independent.  assumption  - orall Bayes' rule doesn't hald
(one mox veign formula. check slide 26)  - orall Bayes rut doesn't hald