

LECTURE 11

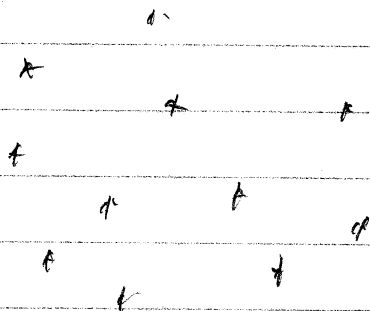
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ML

MAP

NAIVE BAYES

EM



DENSITY ESTIMATION W. A GAUSSIAN

PARAMETERIZED FAMILY OF
DISTRIBUTION IN \mathbb{R}^n

$$P(\bar{x} | \bar{\theta}) = \frac{1}{(2\pi)^{d/2}} e^{-\frac{(\bar{\theta} - \bar{x})^2}{2}}$$

↑ ↑
POINT PARAMETER

← SQUARED DISTANCE FROM MEAN

UNIT VARIANCE GAUSSIAN

$\bar{\theta}$ IS MEAN PARAMETER

