Trustworthy AI

Maximum likelihood 1

Statistical learning

-Use mean values to summaries the observation

Solving maximum likelihood estimator

* Gradient descent

Example

You know the probability distribution

Contain black and white -> binary variable / one dimensional

BBWBWWBWWWBW

B – black W – white

P(B) = theta P(W) = 1 – theta

L(theta | D) = summation (i =1 -> N) theta & 1 – theta

Px probability function

fx continuous probability function

cost function