Bayesian Parameter Estimation

Total points 3/3

The respondent's email (**m22cs060@iitj.ac.in**) was recorded on submission of this form.

✓ Which of the following are valid probability distribution functions for a continuous stochastic variable x ?
[0 <= x <=1]   *1/1

☑ p(x) = 1   ✓

☑ p(x) = 2x   ✓

☐ p(x) = 0

☐ p(x) = -x

✓ Bananas can be yellow or green. There are 100 bananas in a basket. You *1/1
have sampled 20 bananas and 15 of them are yellow. Assuming a
uniform prior probability distribution for the colours, what is your
posterior belief for bananas to be yellow according to the Bayesian
parameter estimation method?

◉ 16/22   ✓

○ 15/20

○ 15/100

○ 1/2

✓ Which one(s) of the following statements are true with respect to Bayesian Parameter estimation? *1/1

☑ Bayesian estimation provides a confidence level for the estimate ✓

☐ Bayesian estimate is always greater than or equal to Maximum Likelihood estimation

☑ Bayesian estimate is less prone to noisy data than Maximum Likelihood Estimation when number of observations are less ✓

☑ Uniform distribution for prior probabilities represents weakest possible prior belief ✓

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