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Lesson 7

Graded Quiz • 15 min

coursera

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Lesson 7

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1. **For Questions 1-5, consider the example of flipping a coin with unknown probability of heads (θ):** **1 / 1 point**

Suppose we use a Bernoulli likelihood for each coin flip, i.e., $f(y_i \mid \theta) = \theta^{y_i}(1-\theta)^{1-y_i} I_{\{0 \le \theta \le 1\}}$ for $y_i = 0$ or $y_i = 1$, and a uniform prior for θ.

- What is the posterior distribution for θ if we observe the following sequence: (T, T, T, T) where H denotes heads ($Y = 1$) and T denotes tails ($Y = 0$)?

- ○ Beta(4,0)
- ○ Beta(1,4)
- ○ Beta(0, 4)

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