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## Module Learning Objectives

- **LO 1.** Identify the difference between a discrete and continuous random variable and define their corresponding probability functions.
- **LO 2.** Elicit prior beliefs about a parameter in terms of a Beta, Gamma, or Normal distribution.
- **LO 3.** Understand the concept of conjugacy and know the Beta-Binomial, Poisson-Gamma, and Normal-Normal conjugate families.
- **LO 4.** Make inferences about a proportion using a conjugate Beta prior.
- **LO 5.** Make inferences about a rate of arrival using a conjugate Gamma prior.
- **LO 6.** Make inferences about the mean of a normal distribution when the variance is known.
- **LO 7.** Articulate the differences between a Frequentist confidence interval and a Bayesian credible interval.
- **LO 8.** Derive the posterior predictive distribution for very simple experiments.
- **LO 9.** Define the concepts of prior, likelihood, and posterior probability and identify how they relate to one another.

Mark as completed





