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Bayesian Estimation of the Parameters of the Normal Demand for a Recycling Process

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Abstract: This document shows the Bayesian methodology for estimating the parameters μ and σ normal demand for a recycling process. In addition, some important quantiles will be obtained in the management of information, such as percentiles 2.5, 97.5, 10.0 and 90. The paper demonstrates the benefit of using Bayesian inference. The components in the Bayes model will be grounded, i.e. priors for the parameters, the likelihood function, the marginal distribution and posterior distribution, with which the above estimates are developed. Calculations are made using the R language for statistical calculations.

Keywords: Bayes Inference, R-Language