

Monte Carlo

Why do we need to estimate expected values?

- Full Bayesian inference (see Week 1)

$$\begin{aligned} p(y \mid x, Y_{\text{train}}, X_{\text{train}}) \\ = \int p(y \mid x, w) p(w \mid Y_{\text{train}}, X_{\text{train}}) dw \end{aligned}$$