Errata for "Notes on probability theory and probabilistic Machine Learning"

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Chapter 1

• pag.9,

$$\begin{split} p(x \in \{2,4,6\}) &= \sum_{\mathsf{x} \in \{2,4,6\}} p(x = \mathsf{x}) \\ &= p(x = 2) + p(x = 4) + p(x = 6) = \textcolor{red}{\textbf{0.51}}, \end{split}$$

• pag.10,

$$p(x \in \{1, 3, 5\}) = 1 - p(x \in \{2, 4, 6\}) = 0.49$$

• pag. 15, What is p(y=1)?

$$\begin{split} p(y=1) &= \sum_{\mathbf{x} \in \{H,T\}} p(x=\mathbf{x},y=1) \\ &= p(x=H,y=1) + p(x=T,y=1) = 0.2. \end{split}$$

• pag. 16, equation (1.7) should be

$$p(x = \mathsf{x}|y = \mathsf{y}) = p(x = \mathsf{x})$$

• pag.17, the same typo above occurs in

$$p(y = i) = \sum_{x \in \{H, T\}} p(x = x, y = i)$$

= $p(x = H, y = i) + p(x = T, y = i)$.