COMP4670 Assignment 1 Theory Answers

Jieli Zheng

u6579712

Exercise 1 Properties of Independent Variables

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By definition of expectation of a continuous random variable: $E[X] = \int_{\Omega} X(\omega) dP(\omega)$
Then,

Exercise 2 Beta Priors

Exercise 3 Coin Flips in Generality

Exercise 4 Noisy Coin Flips