Criminal Case of the Mysterious Cookie Thief



Sweet Treat Bakery is well known in town Sweetville.

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^ahttps://deepai.org/machine-learning-model/text2img

Y. C. Liu (Grinnell)

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Pr(Alice) > Pr(Bob) > Pr(Carol)

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Update with more knowledge (Bayes' Theorem Unveiled)

 $Pr(Carol \mid be \ witnessed) > Pr(Bob \mid cookie \ crumbs) > Pr(Alice)$

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Key formulae

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• $Pr(A \mid B) = \frac{Pr(A \cap B)}{Pr(B)}, Pr(B \mid A) = \frac{Pr(B \cap A)}{Pr(A)}$
• $Pr(A \cap B) = Pr(A \mid B)Pr(B) = Pr(B \mid A)Pr(A)$

Q & A