Bayes Theorem: Takeaways ☎

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Concepts

•	Independence, dependence, and exclusivity describe the relationship between events (two or more events), and they have different mathematical meanings:
	If two events are exhaustive , it means they make up the whole sample space . The law of total probability can be expressed mathematically as:
	The law of total probability is often written using the summation sign :
	For any events A and B, we can use $\textbf{Bayes'}$ theorem to calculate $P(A B)$:
	P(A B) is the posterior probability of A <i>after</i> B happens ("posterior" means "after"). P(A) is the prior probability of A <i>before</i> B happens ("prior" means "before").

Resources

- An intuitive approach to understanding Bayes' theorem
- False positives, false negatives, and Bayes' theorem



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