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 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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