Naive Bayes for Sentiment Analysis: Takeaways



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Concepts

- The Naive Bayes classifier figures out how likely data attributes are associated with a certain class.
- The classifier is based on Bayes' theorem, which is

where:

- and are events.
- is a conditional probability. Specifically, the likelihood of event A occurring given the B is true.
- is also a conditional probability. Specifically, the likelihood of event B occurring given the A is true.
- and are the probabilities of observing and independently of each other.
- Bayes' Theorem describes the probability of an event based on prior knowledge of conditions that might be related to the event.
- Naive Bayes extends Bayes' theorem to handle thee case of multiple data points by assuming each data point is independent.
- The formula for the classifier is the following
- To find the "right classification", we find out which classification () has the highest probability.

Resources

- Bayes' theorem
- Probability theory



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