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The Naïve Bayes is a predictable modeling algorithm, which is very simple but very effective. In addition, Naïve Bayes are machine learning algorithms based on Bayes theorem and can be performed in various classification tasks. So, before diving into the naïve algorithm, Bayes Classifier sought to familiarize himself with Bayes' Theorem to get a better understanding of the algorithm. Bayes' theorem can be used to obtain probability in conditions where some other probability is known. Bayes's theorem states: $P(X|Y) = \frac{P(Y|X) \cdot P(X)}{P(Y)}$. Now, take a look at Bayes' theorems with an example. A theoretical example of Bayes' we assume 200 people invited to the party. Now you need to check how many people may wear formal dresses at the party. Also, check whether the person who wears the official dress is male or female. Now, at first, let us calculate the sum: Finally, now we can calculate the probability: $P(\text{male}) = \frac{120}{200} = 0.6$ For example, the probability of male $P(\text{sex}(\text{official}) = \frac{150}{200} = 0.75$ is the probability of wearing an official dress $P(\text{official} | \text{JAV.direct male}) = \frac{90}{120} = 0.75$ It is the probability that a man wears an official dress, now we need to define $P(\text{male} | \text{official})$ Let's calculate in general words: $P(\text{male}) = \frac{\text{Total Male}}{\text{Total People}} = \frac{120}{200} = 0.6$ $P(\text{Official}) = \frac{\text{Total Official Wearer}}{\text{Total Person}} = \frac{150}{200} = 0.75$ $P(\text{Official} | \text{Male}) = \frac{\text{Official Total Male}}{\text{Male}} = \frac{90}{120} = 0.75$ Now Apply Formula: $P(\text{Male} | \text{Classified})$ after learning about Bayes Theorem, bayes's naïve classification machine can be easily understood. Using bayes theorem, the probability of Y can be determined with a given X, but in real-case situations there may be several X variables. So in a situation where the property is free, Bayes Theorem is the only one who has a good time. Naïve Bayes called it 'naïve' because of its naïve assumptions that such as X was free to each other. Now, let's take a look at the formula of innocent Bayes: $P(X | Y_1, \dots, Y_n) = \frac{P(Y_1)}{P(Y_1) \cdot P(Y_2) \dots}$ Naïve can also be seen as: probability of results | Now moving on to the first term, such as 'chance of proof', it refers to the probability of getting each 'Y' that has been 'X' as of a particular class 'C'. according to The theorem of The Y is naïve, all of Y is considered independent to each other. Therefore, the total likelihood of Y can multiply, which is called 'probability of evidence', the probability of evidence obtained from the data set training after filtering the records at $X=C$. Now, let's go to other vocabulary classes, such as earlier, which refers to the overall probability of $X=C$, C, refers to the level of C. Naïve Bayes Classifier in Python First of all panda libraries is used to read the data contained in the Excel file, and DataFrame is the named data created in the column. Here Yes, it gets a value of weather_dict Temperature_Ordinal temperature_dict 1 and No. Value received as Sunny, windy and rainy Here in the Weather_Ordinal Sunny column has been shown Temperature_Ordinal Weather_Ordinal return_weather_temperature_tuple as 0, Blizzard has been shown as 1 and Rainy has been shown as 2. sklearn.naive_bayes here below the label has been defined as the data contained in the Possible_to_Play column. Finally, a training model using a training kit. Finally, forecasts are carried out to predict whether it will be used to play outside or not. Get code from bayes gitHub //www.geeksforgeeks.org/naive-bayes-classifiers/ //www.datacamp.com/community/tutorials/naive-bayes-scikit-learn-is-one-of-the-earliest-probabilistic-inference-algorithm-developed-by-reverend-bayes (which he once tried and inferred the existence of God quite a bit) and remains very good for certain use cases. Naive bay classification machine assumes that the presence of specific features in the class is not related to the presence of other features. Although these properties depend on each other or when the existence of other properties, all these properties are free leading to the probability that this fruit is an apple and that is why it is known as 'Naive'. To implement bayes theorem, we take bayes theorem from scratch using a simple example. Let's say we're trying to find the odds of each diabetic because he or she has tested it and has a positive result. In the medical field, such probabilities play a very important role, as it is often associated with life and death. We assume the following: $P(D)$ is the probability of a person having diabetes a value of 0.01 or in other words, 1% of the general population has diabetes (Disclaimer: These values are hypothetical and are not reflective of any medical studies). This is called sensitivity or positive rate True $P(\text{Neg} | \sim D)$ is the probability of getting negative results in tests made for diabetes detection, since that you have no diabetes. It also has a value of 0.9 and therefore is valid 90% of the time. This is called a real specificity or negative rate. Self-awareness machine 2. Visual music and machine learning workshop for children 3. Part of the tagging tutorial with the Deep Keras Learning Library Bayes formula is as follows: $P(A)$ is the pre-probability of A happening by mistake. In our example, this is $P(D)$ this value given to us, $P(B)$ is the previous probability of B occurring by mistake. In our example, this is $P(\text{Pos})$ $P(A|B)$ is the latter probability that A occurs, b in our sample is $P(D | 10000)$ 2009, that is, the probability of a person's diabetes, since the person has a positive test result. This is the value we are looking for to calculate $P(B|100000000 A)$ as the chance of B occurs, received. In our example, this is the $P(\text{Pos} | 2009-10-2009D)$. $\text{Pos} = \frac{P(D) \cdot P(\text{Pos} | D)}{P(\text{Pos})}$ Probability of receiving positive test results $P(\text{Pos})$ can be calculated using the following sensitivity and specificity: $P(\text{Pos}) = [P(D) \text{Sensitivity} + [P(\sim D) \cdot (1-\text{Specificity})]]$ Using $P(\text{Pos})$ We can calculate $P(D | P)$ We have the probability of a diabetic receiving a person who has obtained a positive test result is 0.0833 What does the word Naive's in 'Naive Bayes' mean? So in our diabetes sample, we There is only one feature, that is, the test results. Let's say we've added another 'workout' feature. Let's say this feature has binary values of 0 and 1, which originally meant an individual's workout less than or equal to 2 days a week, and the latter meant that an individual's workout was greater than or equal to 3 days a week. If we are using these two features as a test result and the value of the 'exercise' feature to calculate our final probability, Bayes' theorem will fail. Naïve Bay is an extension of Bayes' theorem that assumes all features are independent of each other. Other

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