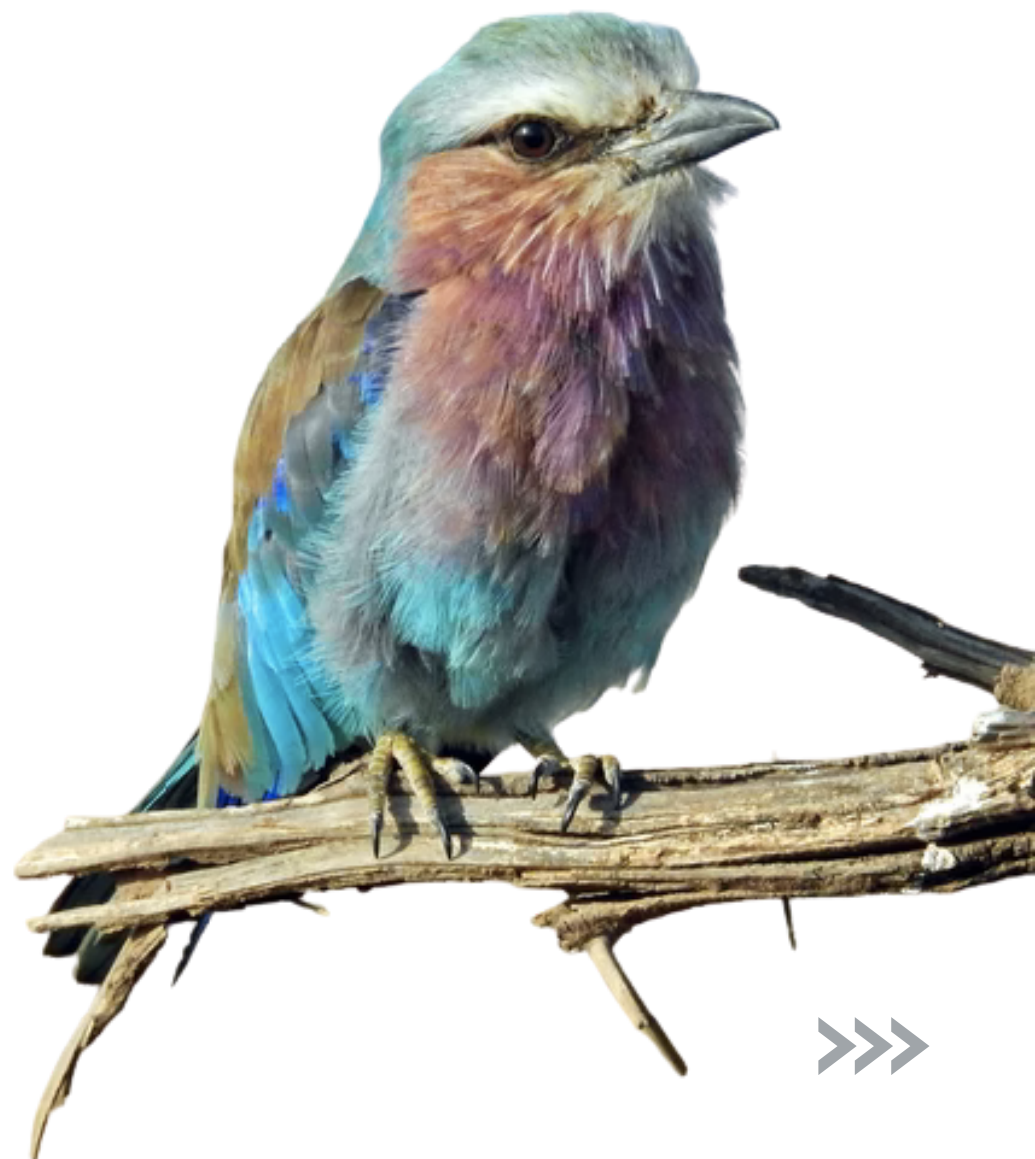


# TOP 3 BINARY CLASSIFICATION ALGORITHMS

SWIPE →



# Bernoulli Naive Bayes

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The Bernoulli Naïve Bayes is one of the variations of the Naïve Bayes algorithm. Advantages of using this algorithm for binary classification are:

- it is very fast as compared to the other classification algorithms
- it can perform well in both large and small datasets
- it can also handle irrelevant features easily.

$$p(x) = P[X = x] = \begin{cases} q = 1 - p & x = 0 \\ p & x = 1 \end{cases}$$

# Logistic Regression

---

Logistic Regression is a very simple classification algorithm and one of the most efficient machine learning classifiers.

Some of the advantages of logistic regression for binary classification are it is easier to implement and very efficient to train.

One disadvantage this algorithm has is that it is affected by outliers.

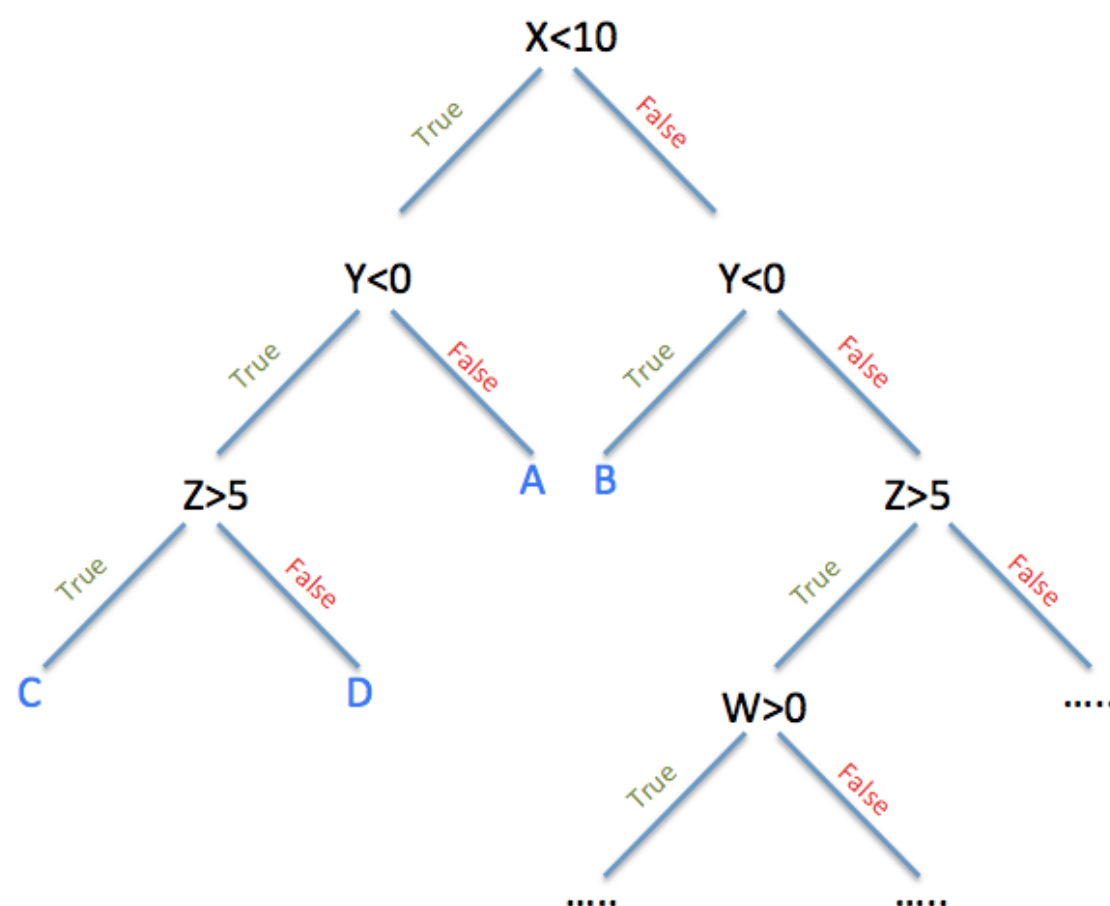
$$y = \frac{e^{b_0 + b_1 x}}{1 + e^{b_0 + b_1 x}}$$

# Decision Tree Classifier

---

The decision tree algorithm is a powerful algorithm that can be used in any type of classification task without being affected by outliers.

One of the advantages of the decision tree classification algorithm is that it requires very little data preparation as it is not affected by outliers.





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