The **Gaussian Processes Classifier**

<https://machinelearningmastery.com/gaussian-processes-for-classification-with-python/#:~:text=The%20Gaussian%20Processes%20Classifier%20is,algorithms%20for%20classification%20and%20regression>.

Gaussian probability distribution functions summarize the distribution of random variables, whereas Gaussian processes summarize the properties of the functions, e.g. the parameters of the functions.

Gaussian processes can be used as a machine learning algorithm for classification predictive modeling.

-classifier

-based on the Gaussian probability distribution

The bagging classifier

https://www.geeksforgeeks.org/ml-bagging-classifier/

https://scikit-learn.org/stable/modules/generated/sklearn.ensemble.BaggingClassifier.html

A Bagging classifier is an ensemble meta-estimator that fits base classifiers each on random subsets of the original dataset and then aggregate their individual predictions (either by voting or by averaging) to form a final prediction. Such a meta-estimator can typically be used as a way to reduce the variance of a black-box estimator (e.g., a decision tree), by introducing randomization into its construction procedure and then making an ensemble out of it.

Such a meta-estimator can typically be used as a way to reduce the variance of a black-box estimator (e.g., a decision tree), by introducing randomization into its construction procedure and then making an ensemble out of it.

The bootstrap is a powerful statistical method for estimating a quantity from a data sample. This is easiest to understand if the quantity is a descriptive statistic such as a mean or a standard deviation.

An ensemble method is a technique that combines the predictions from multiple machine learning algorithms together to make more accurate predictions than any individual model.

Bootstrap Aggregation is a general procedure that can be used to reduce the variance for those algorithm that have high variance. An algorithm that has high variance are decision trees, like classification and regression trees (CART).