This project aims to lean about spam classification, a task that involves utilizing the power of machine learning to distinguish between legitimate messages and unwanted spam. By harnessing the capabilities of advanced algorithms and techniques, we aim to develop a robust and intelligent system that can automatically categorize incoming messages as either legitimate or spam.

Introduction to XGBoost: Enhancing Machine Learning with Extreme Gradient Boosting

In the ever-evolving landscape of machine learning, staying at the forefront of cutting-edge algorithms is paramount. One such algorithm that has garnered widespread attention and acclaim is XGBoost, an abbreviation for Extreme Gradient Boosting. XGBoost stands as a shining example of the power and elegance that can be achieved through the fusion of advanced techniques and robust model construction.

XGBoost is a gradient boosting framework that has revolutionized the field of supervised learning, especially in the realms of classification and regression tasks. It represents a culmination of boosting techniques and decision tree ensembles, meticulously designed to optimize performance, handle complex relationships, and conquer challenging datasets.

At its core, XGBoost embodies the principles of boosting, a machine learning technique that iteratively combines the strengths of multiple weak learners to create a powerful and accurate predictive model. Through a process of sequential learning, each new weak learner is trained to correct the errors of its predecessors, ultimately culminating in a robust ensemble that captures intricate patterns within the data.

XGBoost
Email Spam prediction XGBoost
Building a Simple Ham/Spam Classifier Using Enron Emails: Logistic Regression and XGBoost

You are free to use any dataset you want but make sure you are using XGboost for it
Thanks