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# Appropriate Detection of HAM and Spam Emails Using Machine Learning Algorithm

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##### Abstract:

An clever and automatic anti-unsolicited mail framework is vital because of the excessive increase of unsolicited e-mail assaults and the inherent malevolent dynamic inside the ones assaults on numerous social, personal, and expert work. There is an increased risk of identity theft, theft of sensitive information, financial loss, damage to reputation, and other crimes that threaten the privacy of the victim. When taking into account the multidimensional feature set of email, current methods are rather fallible. We believe that an artificial intelligence-based strategy is the most effective one going forward, particularly unsupervised machine learning. Exploring the application of unsupervised learning for ham and spam clustering in the mail by comparing these Random Forest, Logistic, Random Tree, Bayes Net, and Naive Bayes algorithms with LTSM Algorithms by using frequency weightage of words and validating the best accuracy is the purpose of this study.

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**I. Introduction**

A networking site is a way for people to communicate their activities, interests, histories, and real-life contacts using visual computer tools. Social media websites (Social network sites ( SNSS) are getting increasingly prominent in today's culture, and removing such from daily life would be tough. They communicated and shared information using several email accounts on the first social media site, which was an email. People now have a plethora of social network applications or Apps to choose from, thanks to the proliferation of smartphones. As the number of users increased spam emails also increased which lead to some inconvenience for the users. By using a mix of freely accessible email sources to build a distinctive and extensive database of email content and particular aspect features. Introducing innovative features according to the content and subject of an email. Examining the clustering results of a number of unsupervised algorithms on this dataset, which contains mostly novel features representing both ham and spam emails.

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