BUILDINGS A SMARTER AI POWERED SPAM CLASSIFIER

PROJECT DEFINITION:

This problem is to build an AI-powered spam classifier that can accurately distinguish between spam and non-spam messages in emails or text messages.The goal is to reduce the number of false positives(classifying legitimate messages as spam) and false negatives (missing actual spam messages) while achieving a high level of accuracy.

SOFTWARE COMPONENT:

The software used in our project is Google Colab using in python.

CHALLENGES:

More than 55% of all emails have been recognized as spam. This demonstrates that spammers waste email users time and resources while producing no meaningful results. Spam can cause significant harm by infecting users computers with malicious software capable of damaging systems and stealing personal information. It also can consume network resources.

PROBLEM STATEMENTS:

Develop an AI-powered spam classifier using natural language processing(NLP) and machine learning techniques to accurately distinguish between spam and non-spam messages in emails or text messages.

1.Continuous updates: Regularly update the AI model with new

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spamming techniques to stay ahead of spammers.

2.Robust training data: Gather a diverse dataset of spam and non-spam messages to improve the accuracy of the classifier.

3.Advanced algorithms: Implement sophisticated algorithms that can adapt and learn from new spam patterns.

4.User feedback: Encourage users to provide feedback on misclassified messages to fine-tune the classifier.

5.Collaborative efforts: Share insights and collaborate with other organizations and experts to collectively combat spam.

PROBLEM RESOLVE STATEMENTS:

1.Prevent spam messages from creeping into the user's inbox, thereby improving user experience.

2.Improves user experience thereby removing unwanted spam messages.

3.Text mining analysis done which separates ham and spam separately.

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