Go-Phish
An AI model to detect and mitigate Phishing emails.

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What ?

Why ?

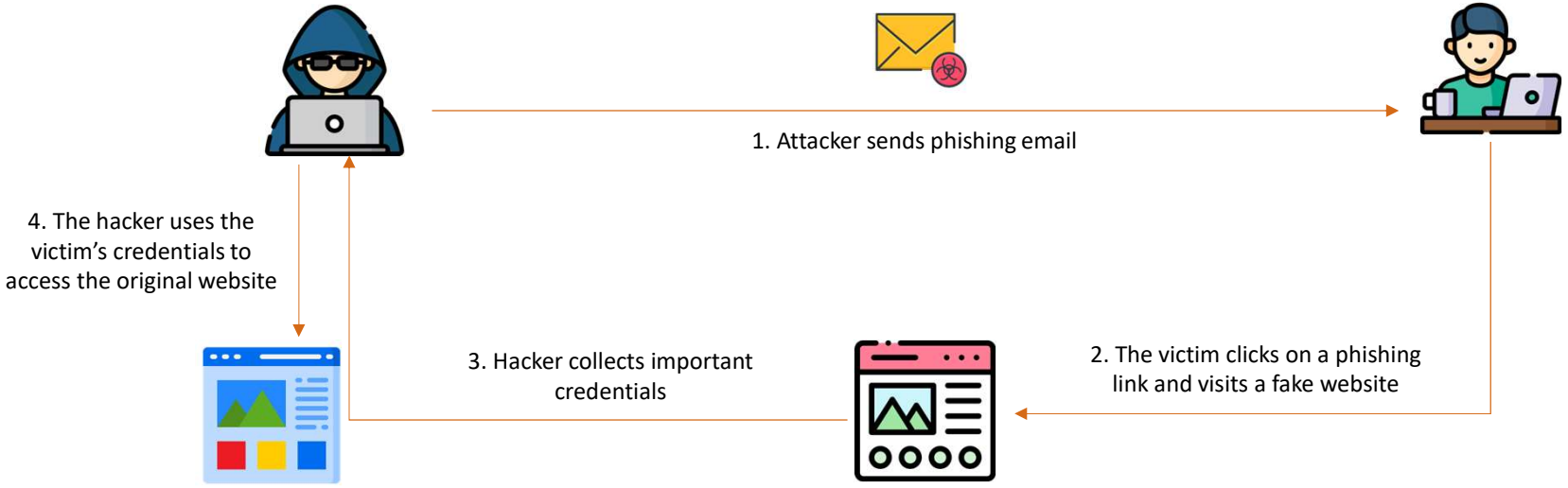
How ?

Where ?

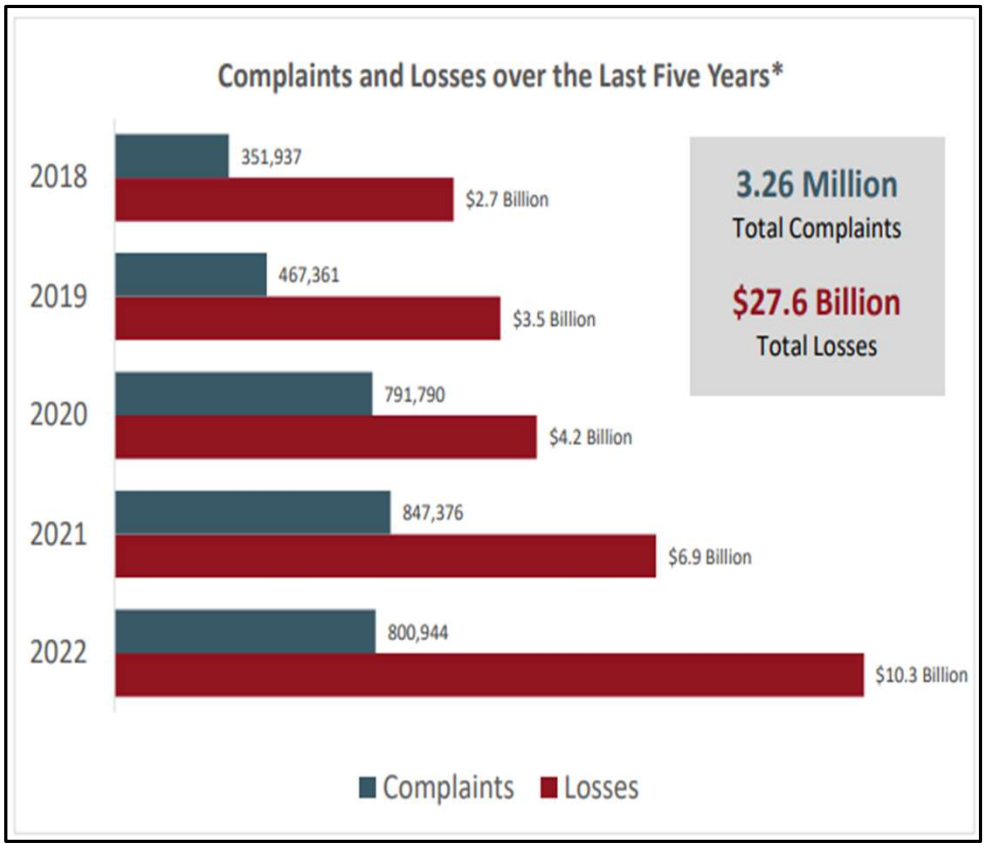
Which ?

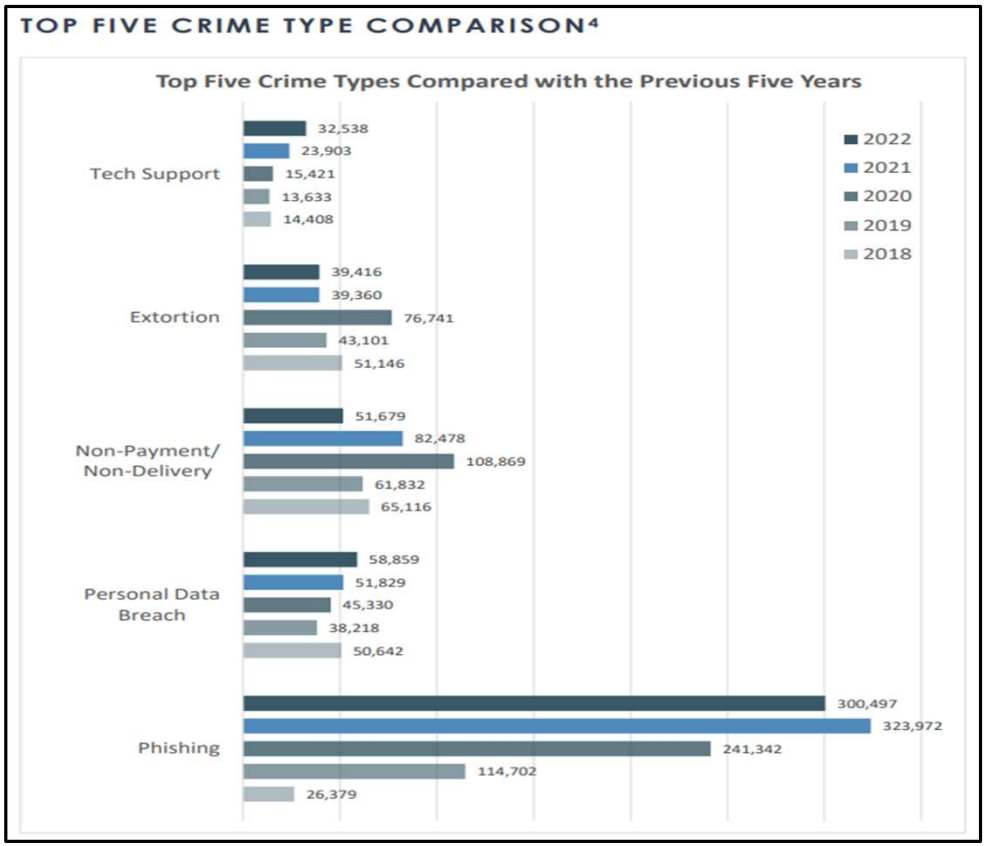
What is Phishing? (Problem Statement)

Phishing is a form of internet crime where attackers deceive people into providing their personal data through a scam process.



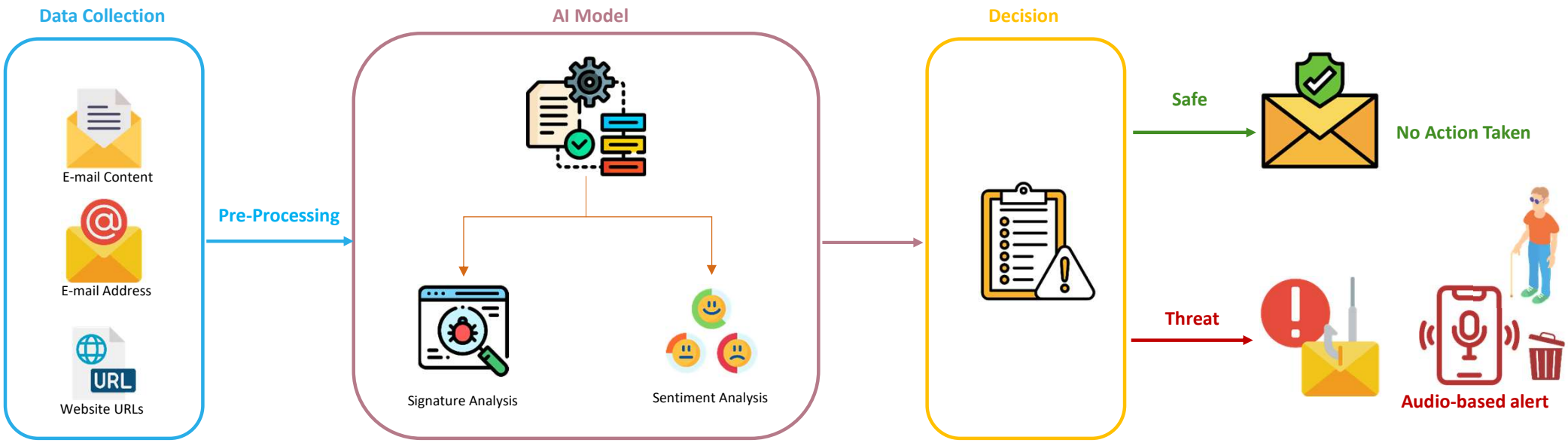
Why is a solution needed? (Problem Statement)



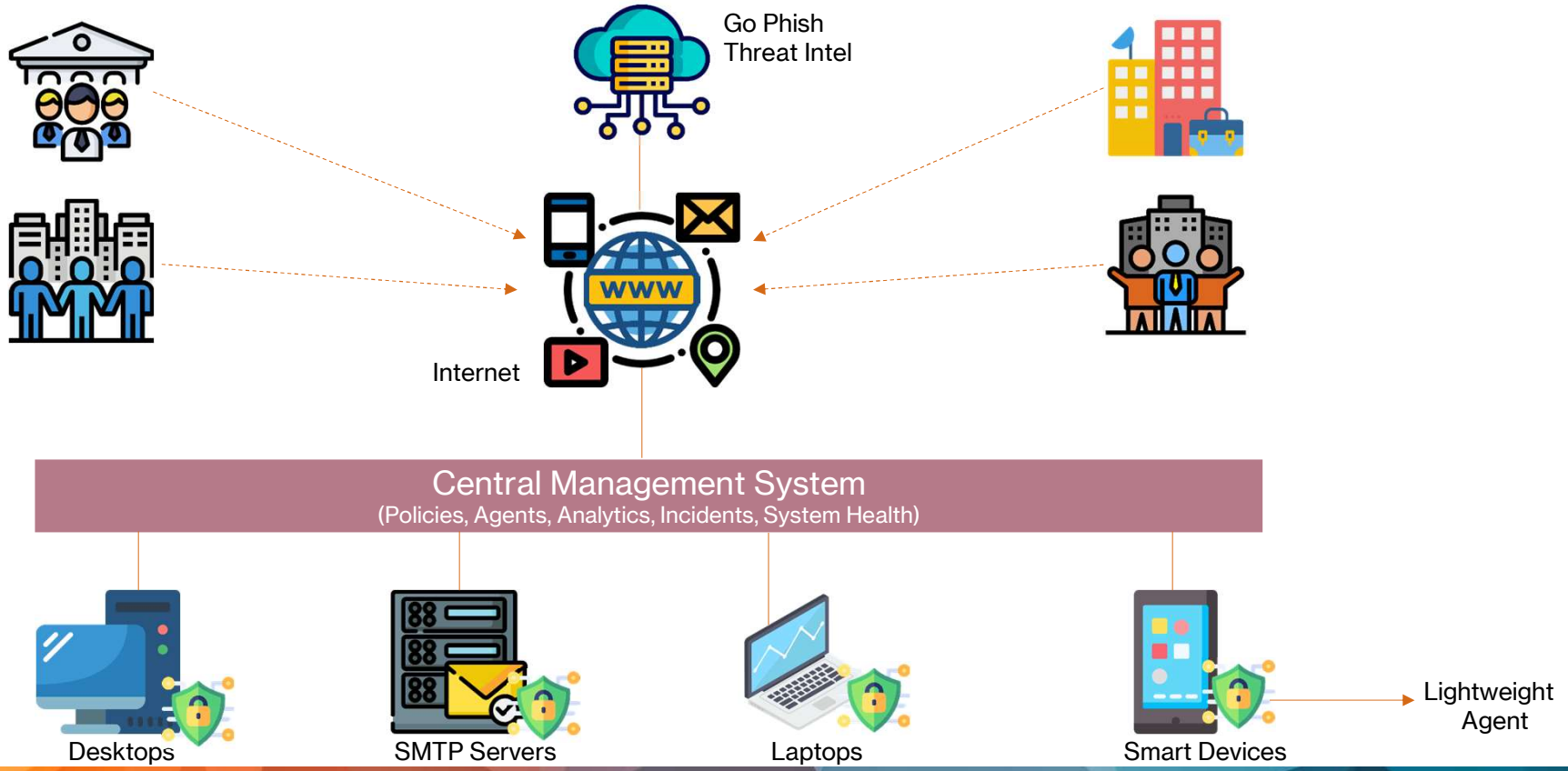


Source: 2022_IC3Raeport.

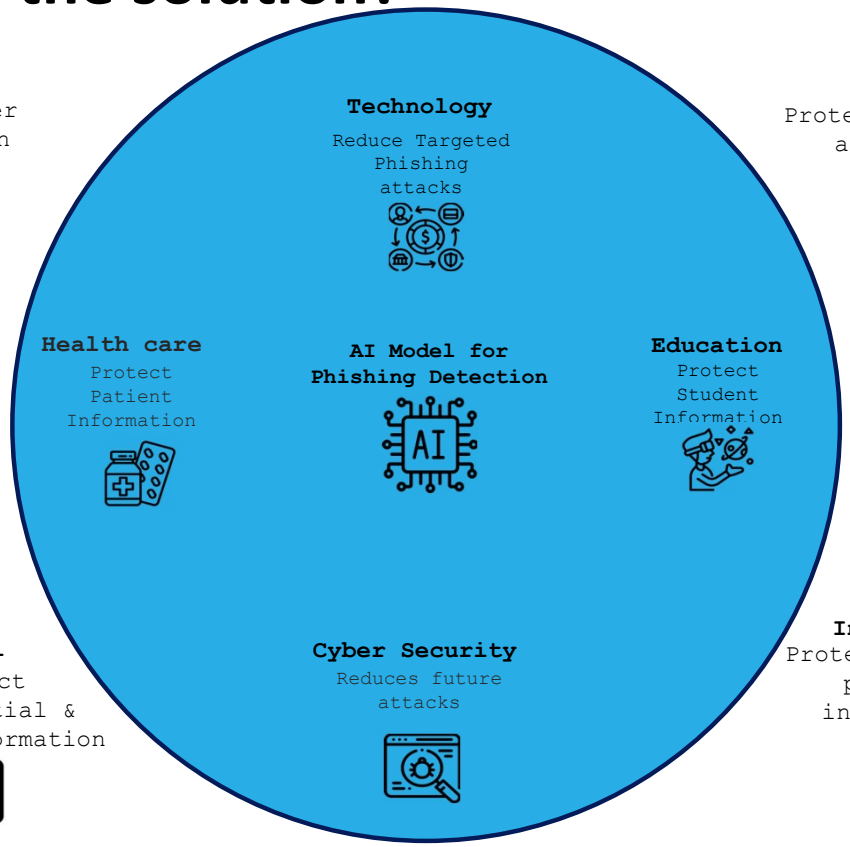
How to solve it? (Vision for the solution)



Introducing Go-Phish (Solution Aligned with Vision)



Where can we apply the solution?



Banking
Protect Customer and Transaction Information

Government
Protect finance and sensitive information

Retail
Protect Customer and Business Information

Media
Protect sensitive information

Legal
Protect Confidential & Client Information

Government
Protect confidential and sensitive information

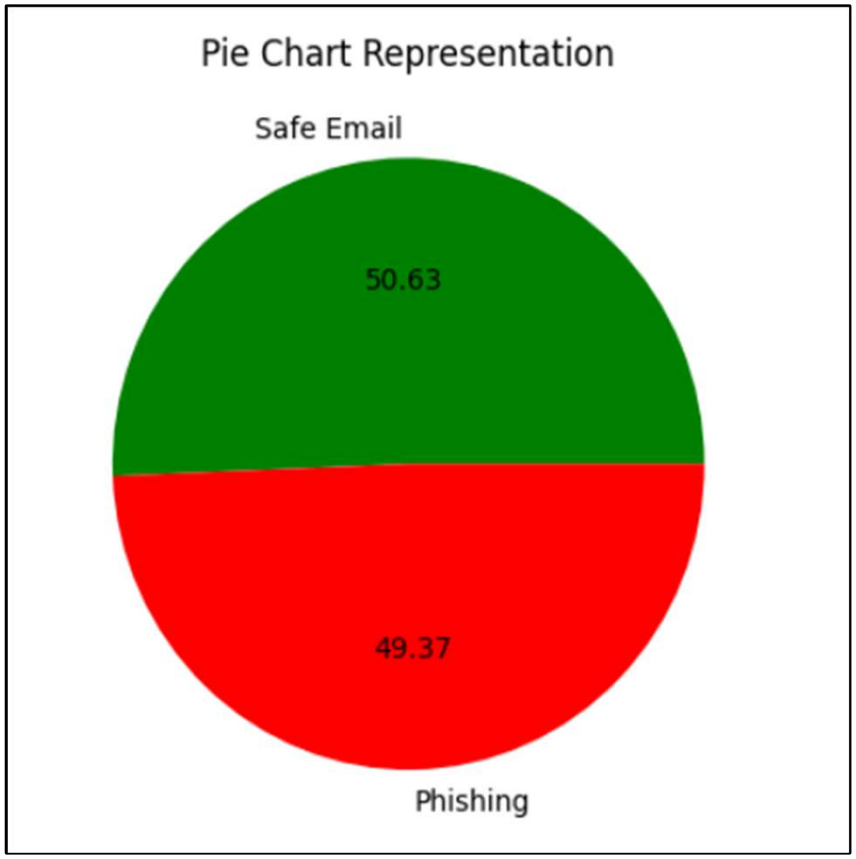
Marketing
Protect customer information

Manufacturing
Protect Automated systems from attacks

Insurance
Protect Customer personal information

Telecom
Protect network & conversation information

Which data is Collected?



Frequency Distribution of Data

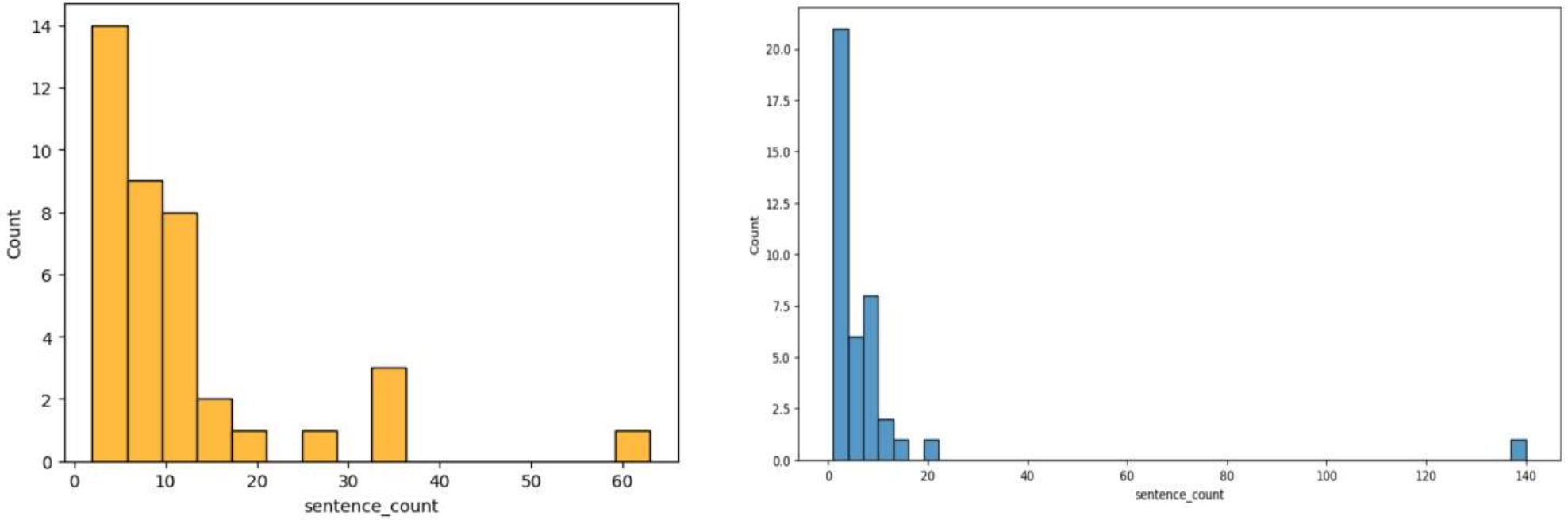
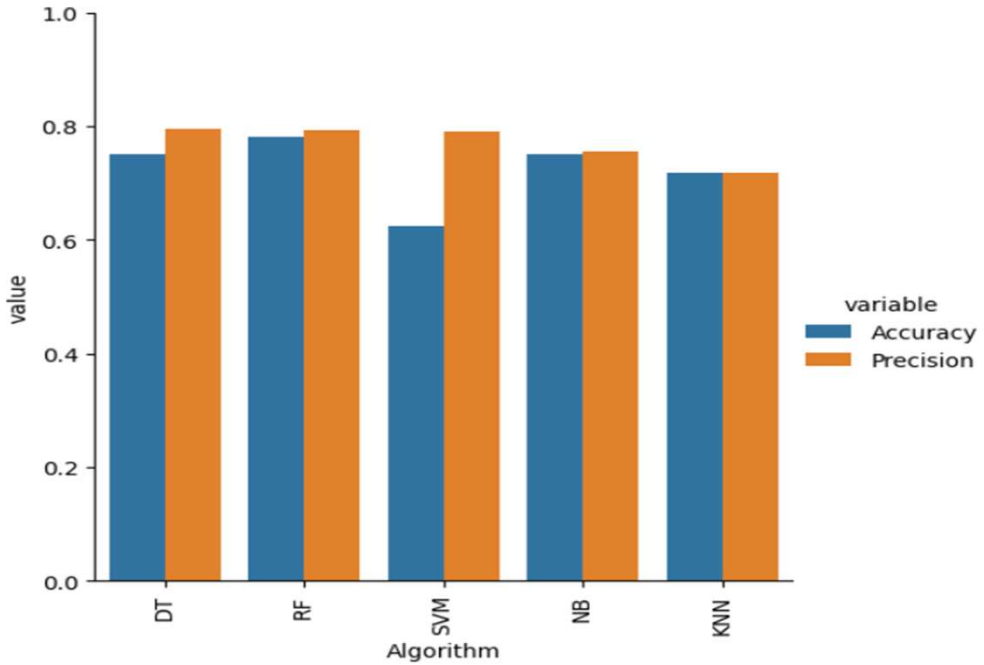


Figure: Sentence count for safe vs phishing email

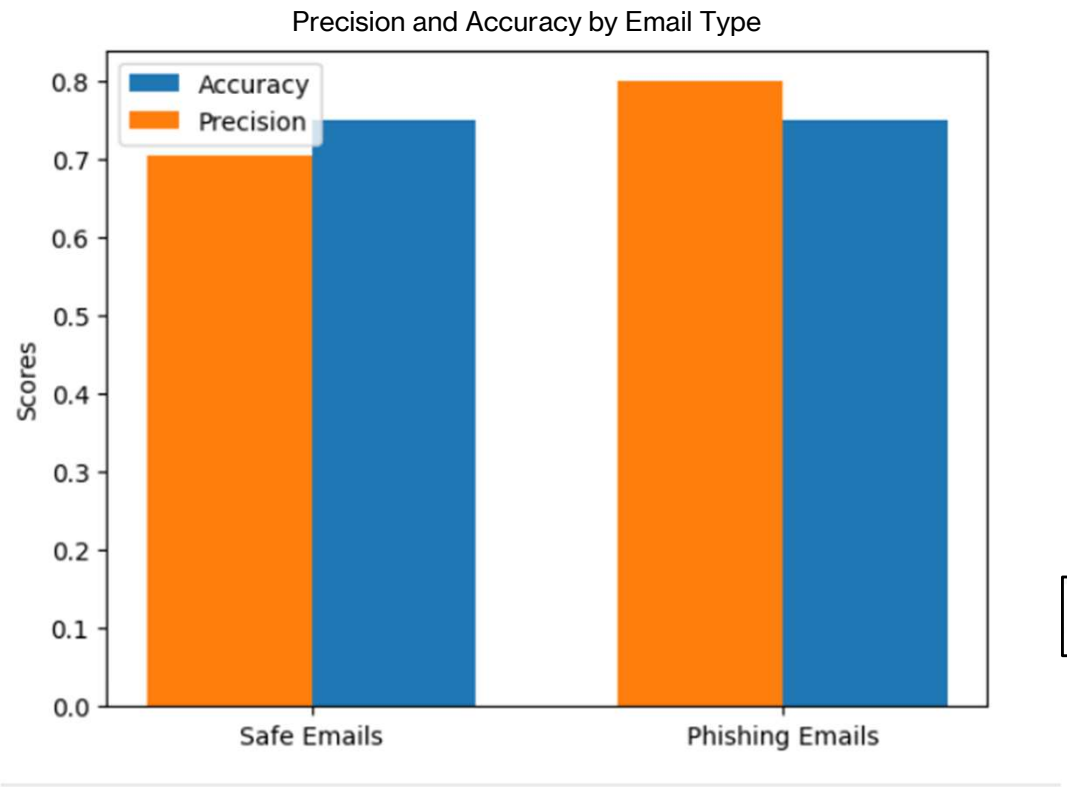
Safe Phishing

Observations

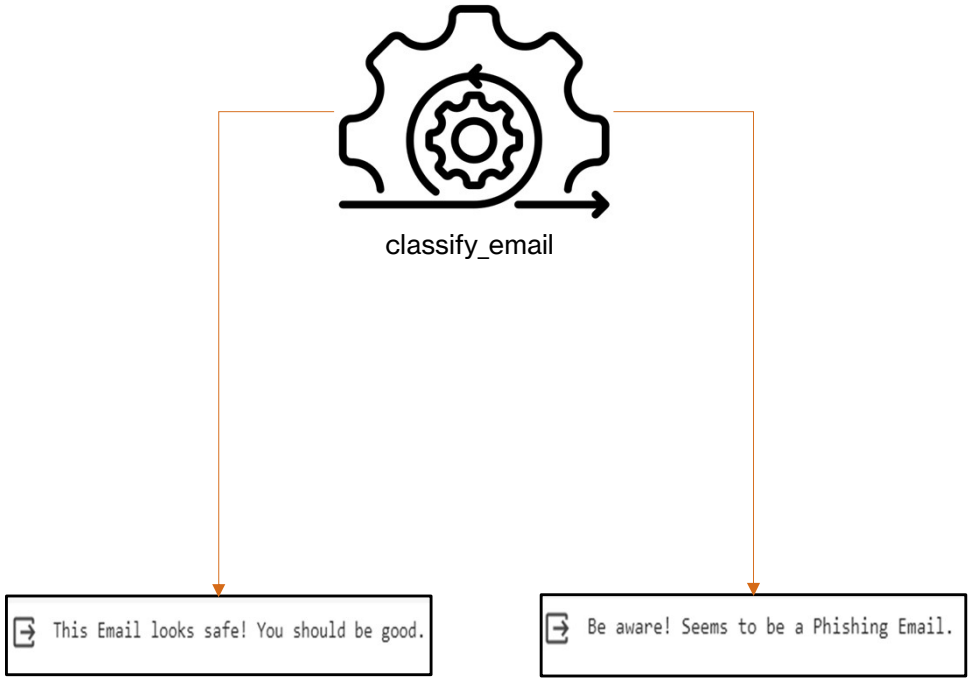
	Algorithm	Accuracy	Precision	Recall	F1-Score
2	DT	0.75000	0.795455	0.75000	0.744048
3	RF	0.78125	0.793899	0.78125	0.780609
4	SVM	0.62500	0.791667	0.62500	0.576299
1	NB	0.75000	0.755882	0.75000	0.750000
0	KNN	0.71875	0.718502	0.71875	0.717919



Conclusion



Random Forest Classifier



Thank You!