WEB PHISHING DETECTION

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ABSTRACT

- Phishing is a form of fraud in which the attacker tries to learn sensitive
 information such as login credentials or account information by sending as a
 reputable entity or person in email or other communication channels.
 Phishing attacks can paralyze a business. Staff might be unable to continue
 their work. Data and assets might be stolen or damaged. Customers might be
 unable to access online services.
- The reason security defenders struggle to detect phishing domains is because of the unique part of the website domain. Social Impact. It will help to minimize the frauds while using software solutions (EX: Web applications, etc.).
- In conclusion, this system is designed for resources are used as intended, prevents from valuable information from leaks out, produce better control mechanism and alerts the user to keep their private information safe.

EXISTING SOLUTION:

• https://checkphish.ai/

REFERENCES:

- https://towardsdatascience.com/phishing-domain-detection-with-ml-5be9c99293e5
- https://ietresearch.onlinelibrary.wiley.com/doi/full/10.1049/iet-net.2020.0078

LITERATURE SURVEY

S.NO	TITLE OF JOURNAL	AUTHOR	YEAR OF PUBLICATION	INFERENCES	PROS & CONS
1.	"A Framework for Auto-Detection of Phishing Websites"	Hossein Shirazi, Kyle Haefnar, Indrakshi Ray.	2017	For phishing websites, machine-learning data can be created using this framework. In this, they have used reduced features set and using python for building query. They build a large labeled dataset and analyze several machine-learning classifiers against this dataset	Analysis of this gives very good accuracy using machine-learning classifiers. These analyses how long it takes to train the model.
2.	"Effective Defense Schemes for Phishing Attacks on Mobile Computing Platforms"	Longfei Wu etal, "	2016	In this paper, author did a comprehensive study on the security vulnerabilities caused by mobile phishing attacks, including the web page	Existing schemes designed for web phishing attacks on PCs cannot effectively address the

4.	"A Literature Survey on Social Engineering Attacks: Phishing Attacks," in International Conference on Computing, Communication and Automation"	Surbhi Gupta etal., "A	2006	To fool an online user into elicit personal Information. The prime objective of this review is to do literature survey on social engineering attack: Phishing attacks and techniques to detect attack. In this paper, a	phishing attacks on mobile devices. It verifies the validity of web pages, applications, and persistent accounts by comparing thee actual Identity to the claimed identity The paper discusses various types of Phishing attacks such as Tabnapping, spoofing emails, Trojan horse, hacking and how to prevent them. They
	Model to Detect			proposed	achieved

	Phishing-Sites using			model was carried out in two	97.75% accuracy on
	Supervised			phases. In phase 1	the
	Learning			individually	testing
	Algorithms"			perform	dataset.
				classification	There is
				techniques, and	limitation of
				select the best	this model
				three models.	that it
				In phase 2, they	requires
				further	more time to
				combined each	build
				individual	hybrid
				model with the	model
				best three	
				models and made	
				a hybrid	
				model that gives	
				better	
				accuracy than	
				individual models.	
5.	"Dhighing : An	SANS	2017		In this
3.	"Phishing : An Analysis of a	Institute, "	2017	This paper gives an in depth	
	Growing	mstitute,		analysis of	analysis author
	Problem"			phishing: what it	explain the
	Tiobiciii			is the	concepts and
				technologies and	technology
				security	behind
				Weaknesses it	phishing,
				takes	show how
				advantage of the	the threat is
				dangers it	much more
				poses to end	then just a
				users.	nuisance
					or passing
					trend, and
					discuss

					how gangs of criminals are using.
6.	"Detecting phishing using machine learning IEEE Conference publication " IEEE Explore	Mohammed Hazim Alkawaz	2020	Anomaly detection solutions are readily available, are deployed quickly and immediately and automatically protect all account holders against all types of fraud attack with minimal Disruption to legitimate online banking activity	Limitation of this project is there was no facility of displaying pop-up and email notification once user had access blacklisted website
7.	"Detection of phishing websites using an efficient feature-based machine learning framework".	Naresh Kumar, Premnath, Nishanth Kumar V, Nemala Sai Rama Hemnah.	2018	In this, they have classified extracted features into three categories such as URL Obfuscation features, Third-Party-based features, Hyperlink-based features.	Moreover, the proposed technique gives 99.55% accuracy. Drawback of this is that as this model uses third party features, classification of websites depends on the speed of third-party services.