



Web Phishing Detector

By Peter Vuong



Introduction



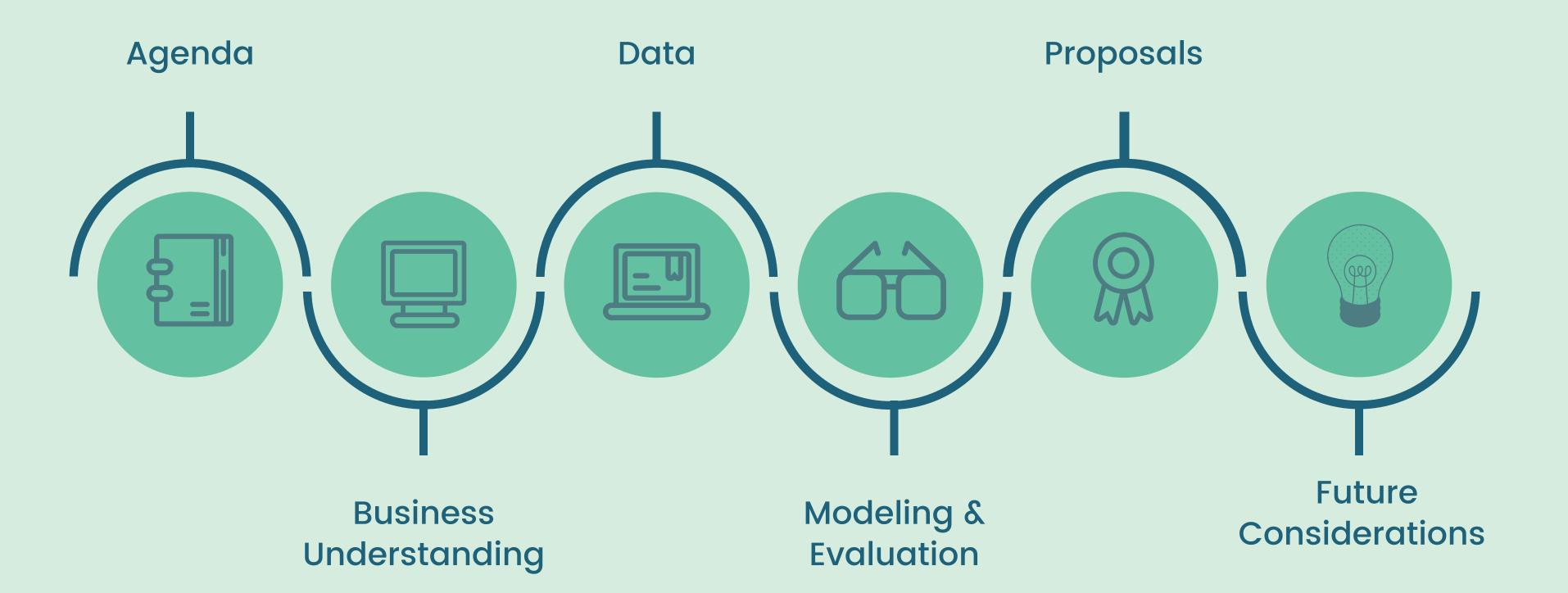
Peter Vuong



GitHub

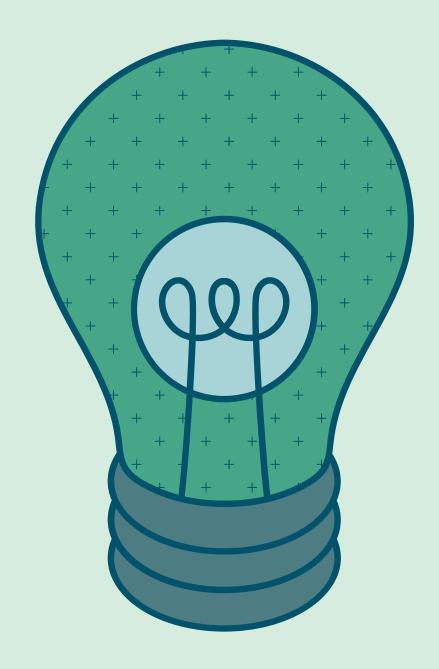


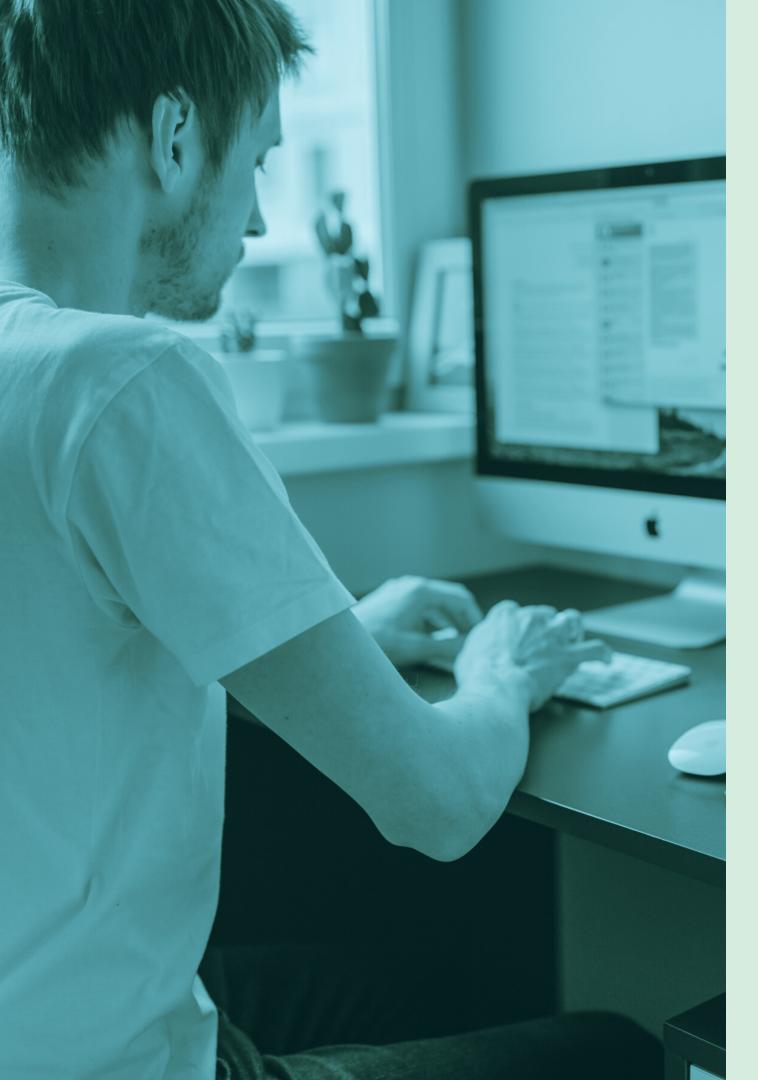
in LinkedIn



"UNIFYING THE GLOBAL
RESPONSE TO CYBERCRIME
THROUGH DATA EXCHANGE,
RESEARCH AND PROMOTING
PUBLIC AWARENESS."

- APWG Mission Statement

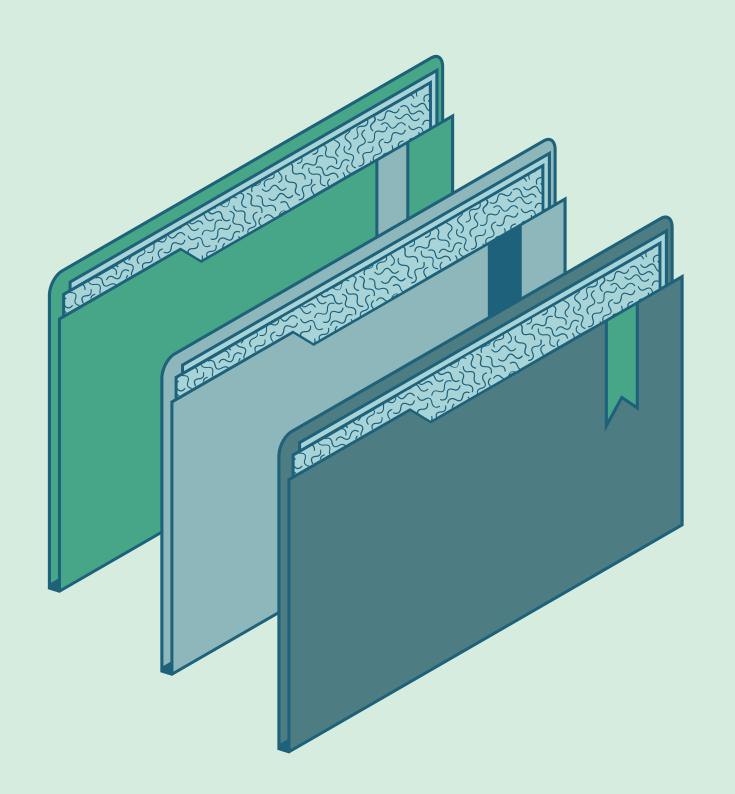




What is phishing?

Socially engineered cyber attack

- Targets older people
- Sensitive information
- >200,000 victims in 2020



Bottom Line Up Front

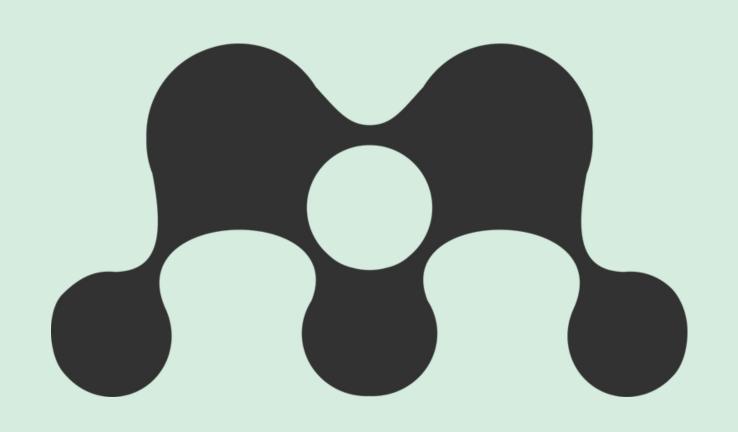
- Accuracy = <u>92%</u>
- Recall = 93%





5x more likely to be phishing



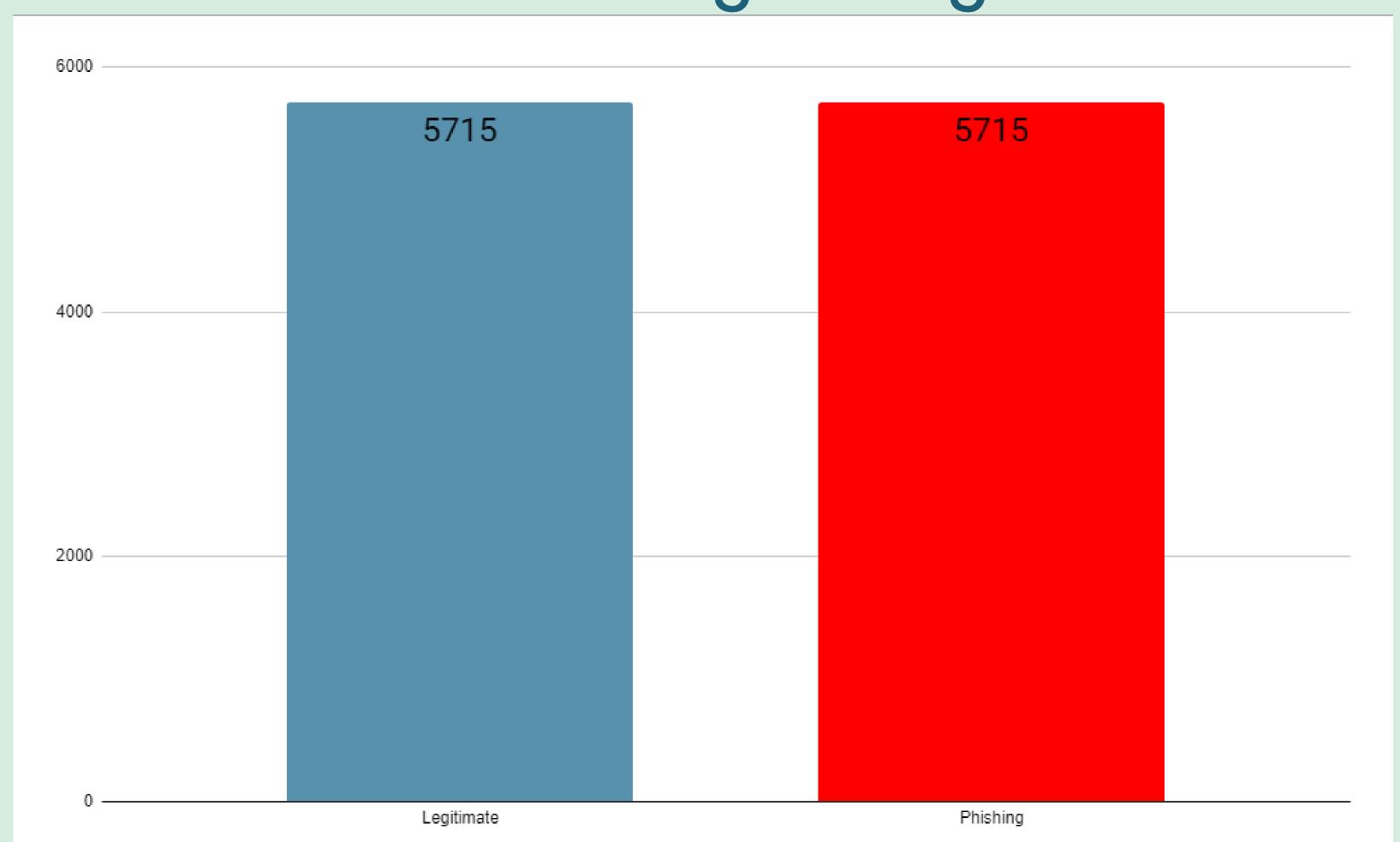


Mendeley Data

Published Jun 25, 2021

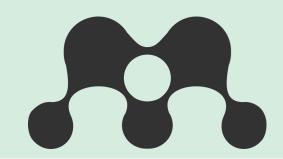
- 11,430 rows of data
- 87 unique features
- Data from 2020

Distribution of Phishing vs. Legitimate Data



Modeling & Evaluation

Logistic Regression



Preprocessing

Logistic
Regression
with
ExtraTrees
Classifier



Logistic Regression

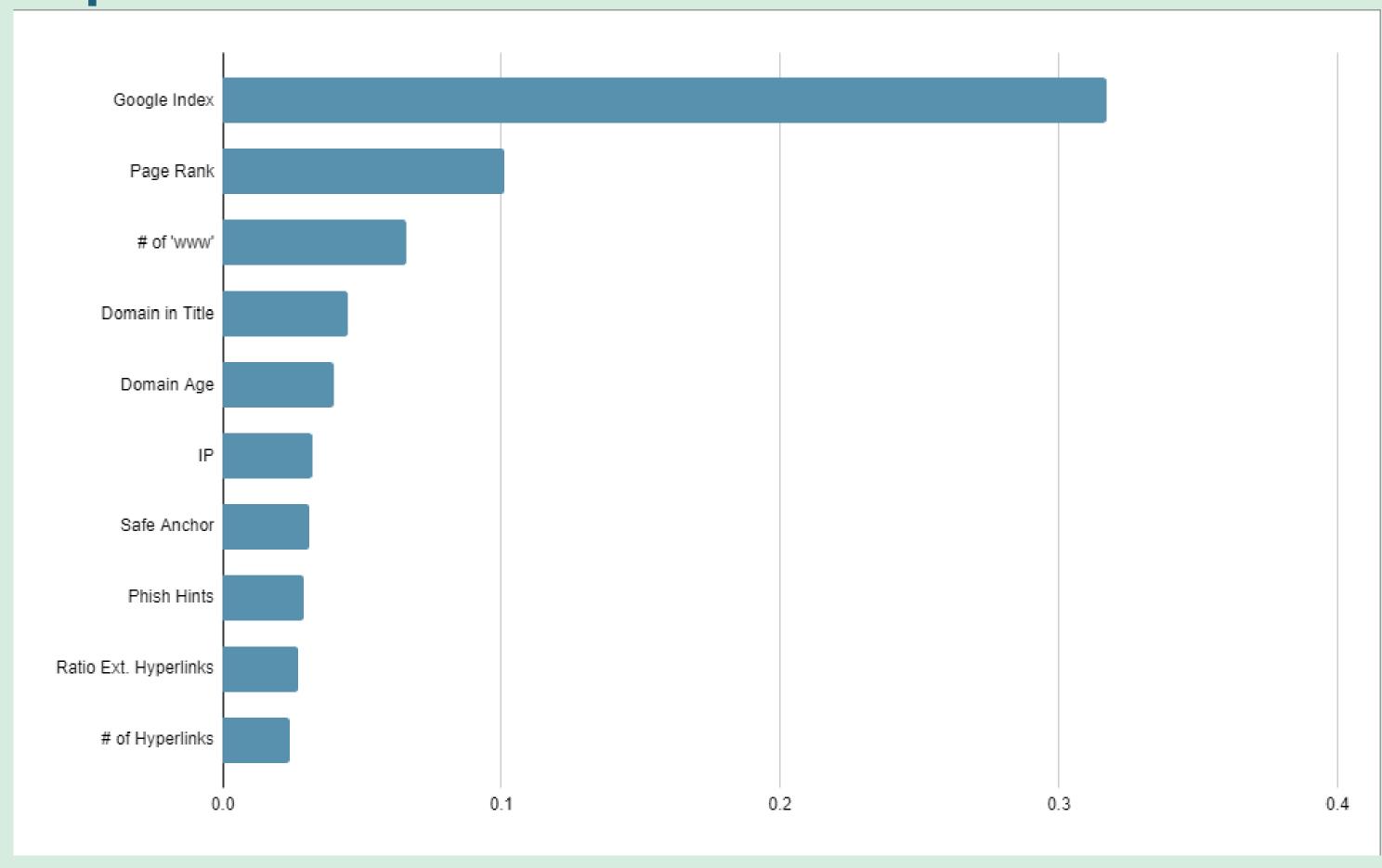
Focus on top 10 features

Accuracy Score = 92%

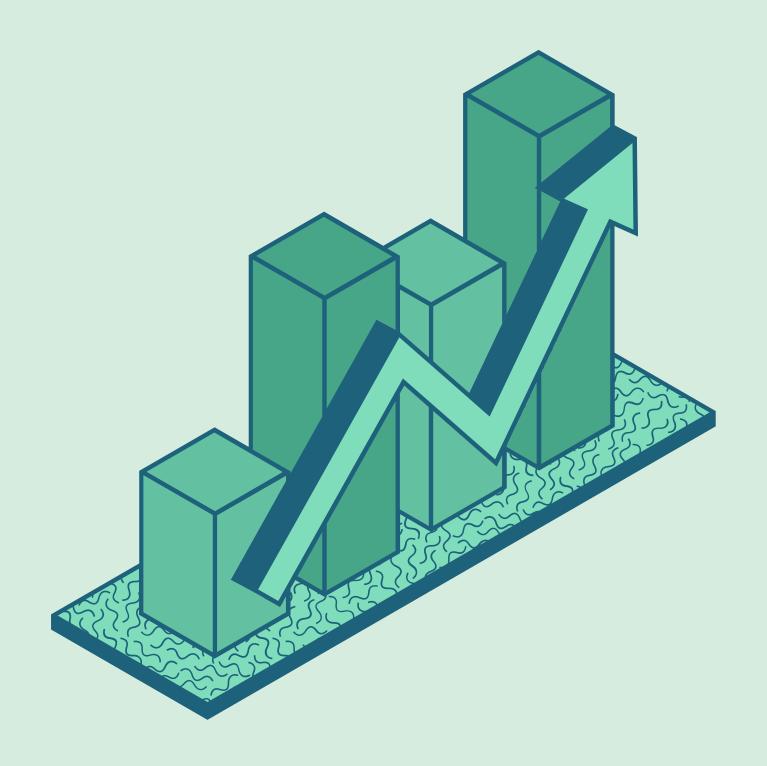
Recall Score = 93%



Top 10 Features from ExtraTreeClassifier



Proposals



Proposals

Google Index accessibility

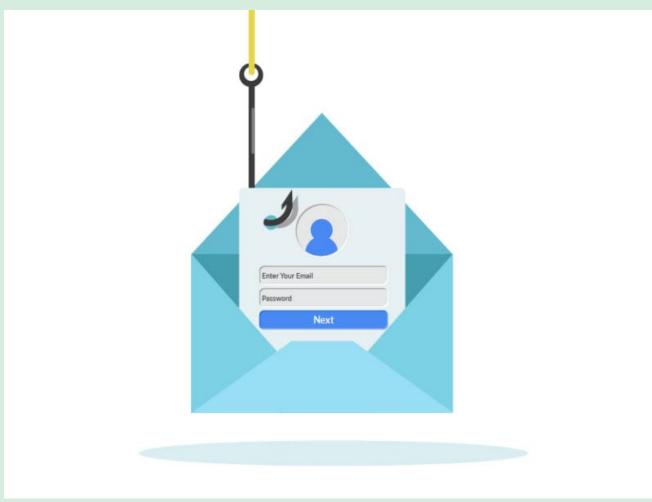
Educate on phishing features

Address new phishing methods



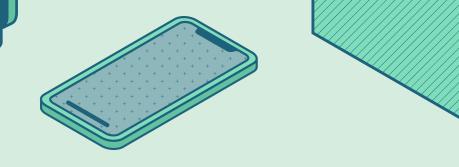






What's Next?

- Text messaging and scam calls
- Web program for phishing detection
- Model for other languages



Thank you!



Peter Vuong



GitHub



in LinkedIn