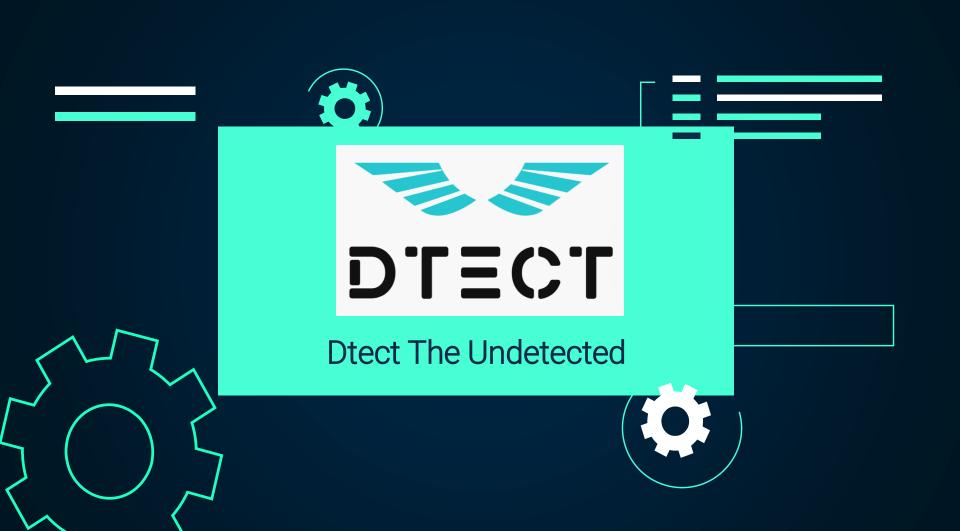


# DTECT: Customer Value Proposition

Alan Chen, Weiyuan (Carl) Che, Or Aharoni, Rutwa Engineer, Xi Huang



# **Customer Personas**

Javier Lorenzo





# **Customer Profile**

#### **Javier Lorenzo**

## **Important Jobs:**

- Functional jobs

## **Important Pains:**

- Insider threats may already exist undetected
- Time and effort to create and maintain their own solution
- It is hard to tell whether a solution is effective

## **Important Gains:**

- Expectations of detection and avoidance of insider threats are satisfied
- Saves time and effort
- Failure and success are measured (false positives/negatives, avoidance of incidents)

# **Customer Profile**

## **Larry Powell**

## **Important Jobs:**

- Social jobs and basic needs

#### **Important Pains:**

- Requires money and effort to purchase and integrate a third-party solution
- Too many false positives
- Lack of feature to further investigate the alert raised by the product

## **Important Gains:**

- Saves money and effort
- Bein able to identify anomalous patterns of behaviour
- Being able to validate alerts raised by the product before taking actions

## **Products & Services**

**Activity log ingestion** 



**Security system onboarding** 

Behavioural data visualization



**\$** 

Regular system updates

User behaviour analysis with machine learning





**Recurring billing** 

# Value Proposition

## **Pain Relievers**

- Flexibility & Scalability
- . Recurring updates
- Insider threat alert system

## **Gain Creators**

- Identify subtle and pattern-based behavioural anomalies
- Overall visualization for behaviour monitoring
- Elevate decision maker's image with a satisfying product

# **Competitive Landscape**

Direct competitors









# **Competitive Landscape**

Indirect competitors







# **Differentiation**

## Infrastructure

- Data ingestion
- Data analysis
- Data representation

## Financial model

- Free Trial
- Low pricing

# **Business Model Canvas**

#### Key Value Customer Key Customer **Activities Propositions** Relationships **Segments Partners** Display categorized user ➤ Large financial activities in detail Display for user > Investment partners > Provider of > Anomaly detection and firms with most activity monitoring analytics minimization of false positives Cybersecurity reps workers working Refine and improve the model (feedback training) from customers Model to detect > Provider of from home Trust relationships with anomalous patterns automation customers and behaviours Marketing > Cybersecurity # engineers Key Channels Resources ➤ Webapp > Cybersecurity team Developers directors ML R&D intellectuals Online platform **Customer relationship** managers **Funding** Brand **Revenue Streams Cost Structure**

- R&D costs
- Marketing costs
- > Technology and maintenance costs (data center, licenses etc.)

> Subscription service

# **Technology**

Machine Learning

#### Insider threat detection: Where and how data science applies



#### Derek Lir

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KEYWOFIDS: insider threat, data science, machine learning, SIEM, user and entity behaviour analytics.

#### INTRODUCTION

As mader threat is a threat to as engaginate that course from seen who have access to the compresse namous. The threat may be contrige from external alverancies who how corresponding distinual new accounts of the configuration of the configuracian who have a construction who have accessed network someoners with malities and the configuration who have accessed network someoners with malities intent, or even flows employees white how

result in compromised intellectual properties, ion: Iraked sensitive data and a turnished company

commis' are the essential first line of defences against insider threats, perventitive miscourse do not detect threats. Correctional means of detection that rely on signatures do not apply, as insider activities have no factual signatures. The traditional use of correlation per tribe in security information and event

#### Machine learning based Insider Threat Modelling and Detection

Duc C. Le and A. Nur Zincir-Heywood f Conputer Science, Dallousie University, Halifia, Nova Scotia, Car

CEFIP, (2019). This is the author's version of the work. It is posted here by permission of IFIP for your personal not. Not for redistribution. The definitive version was guidelshed in IEEE/IFIP Workshop on Security for Emerging Distributed Network Technologies (DISSECT), 2019, http://di.lilp.verpib/conf/fimin/2019-xx2-disect/1918/6.pdf.

#### Abstract

Recently, malicious insider attacks reprosent one of the most damaging threats to computes and generated agrees. This paper propose a sew framework in contracting a new current matrine farming based under our individual data interacts but does or mental and malicious individual data interacts but does or mental and malicious individual contracts but does not mental and malicious individual contracts but does not mental and malicious individual exhibits specific contract and delay in detection are reproduced and discoused. Our ments show that the malicious individual is classified in the delay of the malicious individual contracts and the malicious individual contracts and

#### Index Term

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#### I. INTRODUCTION

Some of the most damaging security threats that companies and government agencies are facing is insider threat, where the malicious acts are performed by authorized personnel in the organizations. Recent reports show that 53% of organizations and 42% of U.S. foderal agencies are suffering from insider threats every year [1], [2].

Endor from related activities can be carried on both interdionally, such as information opens subseque, medicional property and an discourse of clouded information, as wife as minimization, such as militarious and a subsequent of the control of

activities from the arginitude circles where in any troop instructive accessive for maker from descrictor. Persponent and exhaustion of practicity analysis (EEE) attacks of contractive and a section (EE), our system seeks to learn from only a small number of normal rankticess inside actions for leakening threats in inclusion waids. In this context, we assume the point of view of spersecurity analysis, where the amount of work is proportional not only to the numers of afters but also to the number of users larged, and we have a summary of work is proportional not only to the number of work is proportional not only to the number of section between the contractive and the section of the contractive and the section of the section of section is a section of the section of section in the section of the section A novel embedding-based framework improving the User and Entity Behavior Analysis

Thomas Anglade 1 and Christophe Denis 2 and Thierry Berthier 3

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Abstract. Over the last few years, the number and the variety of spher-strakes have been constartly priving. He hundrage of spher-strakes has become extremely large (DAC, DROSS, planding, CRC, bottotte, mulwares, nanoemwares, etc.). Today, UEBA (User and Entity Behavior, analysas's in the best-solution that companies need to use to adopt the tone changes. Uning UEBA, companies do not track necessity events or montier devices instituted using at the users and when there is a devicion from established autorus.

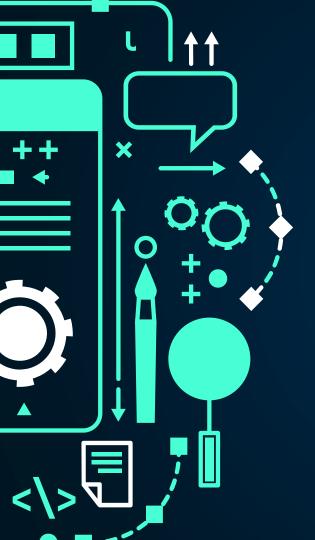
This paper offers a more demokaling-based framework than facilitate UEIA by projecting quotes and unstructurated legal tast in according more and contracturated legal tast in according more and more visual way than using typical deep beaming algorithms of the market of the size of the market of the size of the market of the size of the market of the

Keywords: cybersecurity, UEBA, Machine Learning, Explainable Al.

#### Introduction

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# **THANK YOU**

Questions?

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