

LOCARD: R&D for detecting deviant online behaviour

Constantinos Patsakis, March 25th 2021
i-LEAD Research Day



<https://locard.eu>



info@locard.eu



[LOCARD_EU](#)



[@LOCARD_EU](#)



```
{
  "name": "Constantinos",
  "surname": "Patsakis",
  "organisation": [{
    "affiliation": "University of Piraeus",
    "role": "Associate professor"
  }, {
    "affiliation": "Athena Research Center",
    "role": "Adjunct researcher"
  }],
  "expertise": ["security", "privacy", "cryptography",
"cybercrime"],
  "email": "kpatsak@gmail.com",
  "webpage": "https://www.cs.unipi.gr/kpatsak"
}
```

- Research and tools for detecting deviant online behaviour from the LOCARD project
- Mainly focused on NLP
- Results



- NLP methods have made huge steps forward and present very good results when handling large chunks of data
- What happens with short messages?



- When we exchange messages, is it always verbal?



- We collected a large dataset from online chats where grooming was performed and synthesized a filter to detect such behaviours
- Dataset available for researchers and LEAs:
<https://zenodo.org/record/3560365>
- Analysis and results:
 - Nikolaos Lykousas and Constantinos Patsakis. Large-scale analysis of grooming in modern social networks. Expert Systems With Applications, pages 1–1, 2021



A predator is a person who asks **kids** to undress in front of the camera

And his bio said he likes meeting **young girls**

Block foot fetish **creep**

Don't show the **creeps** anything

Everyone **report** chat **police**

Leave her alone **creep**

Pervs. This **kid** is like 12

Report that **creep** too the **police**

Report the users asking **kids** to undress; to authorities not LiveMe

Show your **kids**

So if they didn't **ban** people for nudity you would show?

This needs to be **reported** what sort of sick people are ye. She is only 11

YOUR MOM WILL NOW GET A CALL TO KNOW YOU TALK TO 40

years old **creeps**

You **pervs** are **nasty** as f***

block & **report** **nasty** stuff

creeps make **kids** do **nasty** stuff

he's following lots of **young girls**

pervs stop asking her to undress

report these pedos to **police** mate

she is a **child** stop asking that

she not letting you **creeps** or sick **perv** seeing her dress or undress ok

she's a **kid**. ...**perv**

they can't **ban** you if you delete your video after you show

too **young** this is illegal nd wrong lol

try not to undress on stream, it will draw in a lot of **creeps**

you have **creeps** who made you do **nasty** stuff

you look very **young**.there are lots of pedos on here. be careful



- Darkweb marketplaces are known for what is being sold
- What about the surface web?
- What if there is no search option in the marketplace?



The screenshot shows the Shoppify website interface. At the top, there is a navigation bar with the Shoppify logo, menu items (Product, Developers, Resources, Pricing), and buttons for Sign In and Sign Up. The main heading is "Sell Digital Goods Online". Below this, a paragraph describes Shoppify as an all-in-one payment processing and e-commerce solution. A "Create Account" button is present. At the bottom, there are logos for the App Store and Google Play. Overlaid on the website is a mobile app interface showing a dashboard with revenue, orders, and a line chart. A sidebar menu is also visible on the app interface.

Shoppify

Product ▾ Developers ▾ Resources ▾ Pricing

Sign In Sign Up

Sell Digital Goods Online

Shoppify is an all-in-one payment processing and e-commerce solution. Accept payments, sell digital products from your own and more, do it all with a single platform.

Create Account

Available on the App Store

GET IT ON Google Play

Dashboard

Revenue 1440,00€

Orders Per Day 1,13k

Orders 27,61k

Recent Orders

Customer	Amount
STC - musas123@gmail.com	140,00€
STC - levgas09@yahoo.com	45,00€



What's on sale?

Shoppy

Fortnite.Cheap.S

Products Contact Feedback

Search

Product Name	Price	Rating
[FA] Crackshot /w 40-60 Skins	\$8.00	13
[FA] Black Knight /w 150-200 Skins	\$15.00	16
[FA, MFA] Ghoul Trooper /w 100-170 Skins	\$10.00	14
[FA] Galaxy Skin /w 80-160 Skins	\$13.00	20
[FA] A.I.M. /w 5-80+ Skins	\$5.00	24
[FA, MFA] Renegade Raider /w 100-170 Skins	\$10.00	1
[FA, MFA] Recon, Renegade, Ghoul /w 150-200 Skins	\$19.50	15
[FA] The Reaper /w 30-150+ Skins	\$9.00	7



This project has received financial support from the European Union Horizon 2020 Programme under grant agreement no. 832735.

What's on sale?

Shoppy

herbert4x4
(2 / 2 / 1)

Products Contact Feedback

All FitBit <BOOK> Stemming <<VPN>> <Music> Dating

Q

Netflix (Standard plan)	Fitbit Versa 2	Netflix (UHD 4K 4 Screens)	WWE Network
£0.30 1109	£2.00 34	£0.35 1072	£0.50 883
Pof Unpaid account	IPVANISH VPN Account	Spotify Premium Family	Netflix Basic plan
£0.10 9246	£2.00 78	£1.99 9	£0.20 530



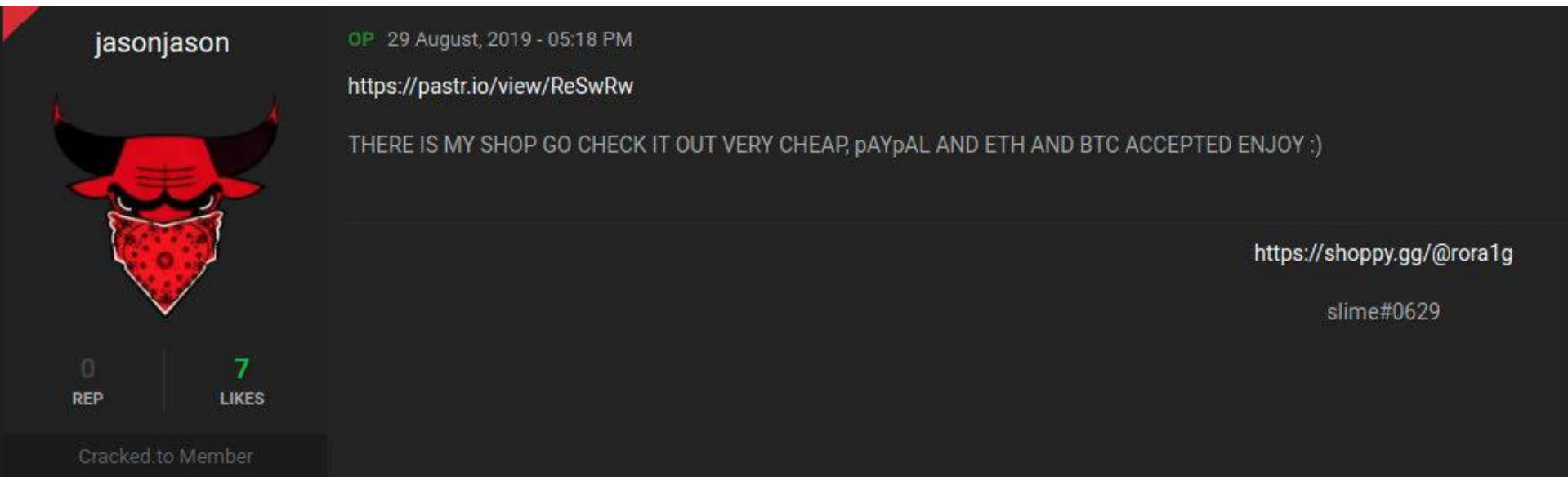
Combo List — 528M Yahoo.com	528,000,000	400
Combo List 376M Hotmail.com	376,000,000	200
Facebook - 267 Million Records Breach [FULL DB]	267,000,000	500
Combo List 258M Gmail.com	258,000,000	250
Zynga - 213 Million Records	213,000,000	250
Dubsmash Full Database — 162 million — hashed	162,000,000	120
DubSmash - 162 Million Records (FULL SQL DB)	162,000,000	35
MyFitness Pal - 4.62GB (144 Million Records)	144,000,000	25
Xiaomi - 144 Million Records	144,000,000	25
Canva - 137 Million Records	137,000,000	80
111 MILLION-RECORD PEMIBLANC USA DATABASE COMBO LIST	111,000,000	30
MyHeritage - 92.2 Million Records	92,200,000	75
Houzz - 49 Million Records	49,000,000	300
Facebook DB - 45 Million	45,000,000	265
Chegg - 29 Million Records (Dehashed)	29,000,000	50
Evony - Multiplayer Game : 28.7 Million + 13.8 Million Records	28,700,000	24
Hautelook - 28 Million Records (Full DB)	28,000,000	100
24 Million LUMINATI PROXY DATABASE HQ [EmailPass] Combo	24,000,000	40
YouNow - 18.2 Million Records	18,200,000	50
Stracks - 18 Million Records	18,000,000	41
500PX - Full DB [14.9 million records]	14,900,000	250
Dubsmash — 12 million lines — Private Combo	12,000,000	25
CouponMom / Armor Games - 11 Million Records	11,000,000	41
Cafepress *NEW* 11 Million Records	11,000,000	41



```
},  
"price": 10,  
"currency": "USD",  
"stock_warning": 0,  
"type": "service",  
"stock": 9223372036854775807  
}, {  
  "id": "bdkYlhF",  
  "title": "5.7M Facebook Profiles w/Email",  
  "image": {  
    "url": "https://s3-storage.shoppo.gg/shoppo-  
gg/product_images/8ew6yoHYJqti4pnH8nxyl1Hf23LKwaRAIC8kmQFQ.png",  
    "path": "product_images/8ew6yoHYJqti4pnH8nxyl1Hf23LKwaRAIC8kmQFQ.png"  
  },  
}
```



- Correlate blackhatworld & cracked.to usernames and signatures



jasonjason OP 29 August, 2019 - 05:18 PM

<https://pastr.io/view/ReSwRw>

THERE IS MY SHOP GO CHECK IT OUT VERY CHEAP, pAYpAL AND ETH AND BTC ACCEPTED ENJOY :)

<https://shoppy.gg/@rora1g>

slime#0629

0 REP | 7 LIKES

Cracked.to Member



skin, fortnite, trooper, black, knight, renegade, galaxy, raider, ghoul, recon, expert, ikonik, skull, psn, linkable, aerial, random, assault, season, stack	466
spotify, premium, netflix, nordvpn, vpn, family, hulu, pornhub, upgrade, nord, crunchyroll, owner, expire, bulk, uhd, disney, grammarly, screen, student, support	344
discord, month, paypal, service, btc, day, buy, week, server, term, read, bot, youtube, twitch, contact, apple, cheap, token, rust, music	219
method, amazon, free, balance, paypal, store, acc, guide, money, carding, make, google, ebook, check, work, ebay, refund, script, bank, link access, full, minecraft, nfa, minecon, cape, sfa, hypixel, acces, optifine, semi, rank, roblox, unmigrated, vip,.mvp, ufa, letter, elite, ninja	205
key, lifetime, steam, origin, game, uplay, window, license, edition, office, pro, battlefield, standard, global, year, crypto, fifa, deluxe, microsoft, home	197
config, capture, openbullet, checker, fast, cpm, full, ultra, package, proxy, api, onetap, instagram, aimware, master, mycanal, view, cfg, update, real	178
premium, hulu, disney, hbo, live, monthly, pass, plan, yearly, commercial, showtime, ad, nba, gold, annual, starz, tidal, fitbit, directv, espn private, day, combo, pack, email, mail, pass, combolist, usa, fresh, access, valid, hit, list, user, domain, mixed, shopping, guarantee, database	153
point, dominos, balance, wing, wild, buffalo, free, reward, pizza, usa, subscription, jersey, sonic, drive, mike, payment, amc, grubhub, pts, shein	135
account, random, gta, shop, dork, crack, site, move, box, source, red, shopy, mixed, high, target, game, million, keyword, turbo	130
premium, year, subscription, vpn, auto, lifetime, renewal, adult, security, site, brazzers, monthly, device, avast, pro, membership, pornportal, unlimited, kaspersky, renew	128
	119
	96



LOCARD

#WorkingForASaferEurope



Thanks for your time and patience



<https://locard.eu>



info@locard.eu



[LOCARD_EU](#)



[@LOCARD_EU](#)



This project has received financial support from the European Union Horizon 2020 Programme under grant agreement no. 832735.