T3K.AI

LEAP

Using cutting-edge AI technology to leverage forensic workflows

Helping law enforcement around the globe

LEAP is an automated tool for quick analysis of data from mobile devices and other media sources. Our Extremism Desk features make it the most powerful counter terrorism solution.

Verifying identity and country of origin and allowing threat screening of travelers

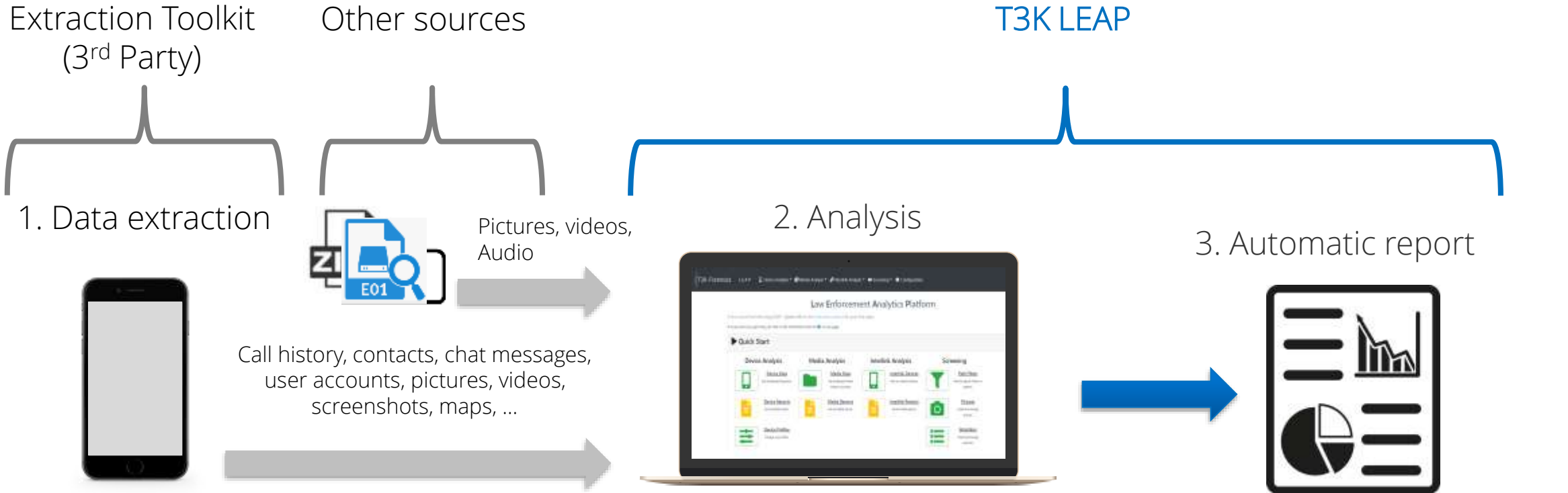Providing automated media classification to detect illicit contents

Answering first questions for investigators in minutes thanks to automated report

Screening can easily be done by technical laymen due to seamless integration into existing workflows

→ Used for Immigration, Counter-Terrorism, CSAM, Anti-Fraud,...

→ Gives customers a chance to prioritize cases and devices by quickly scanning seized evidence
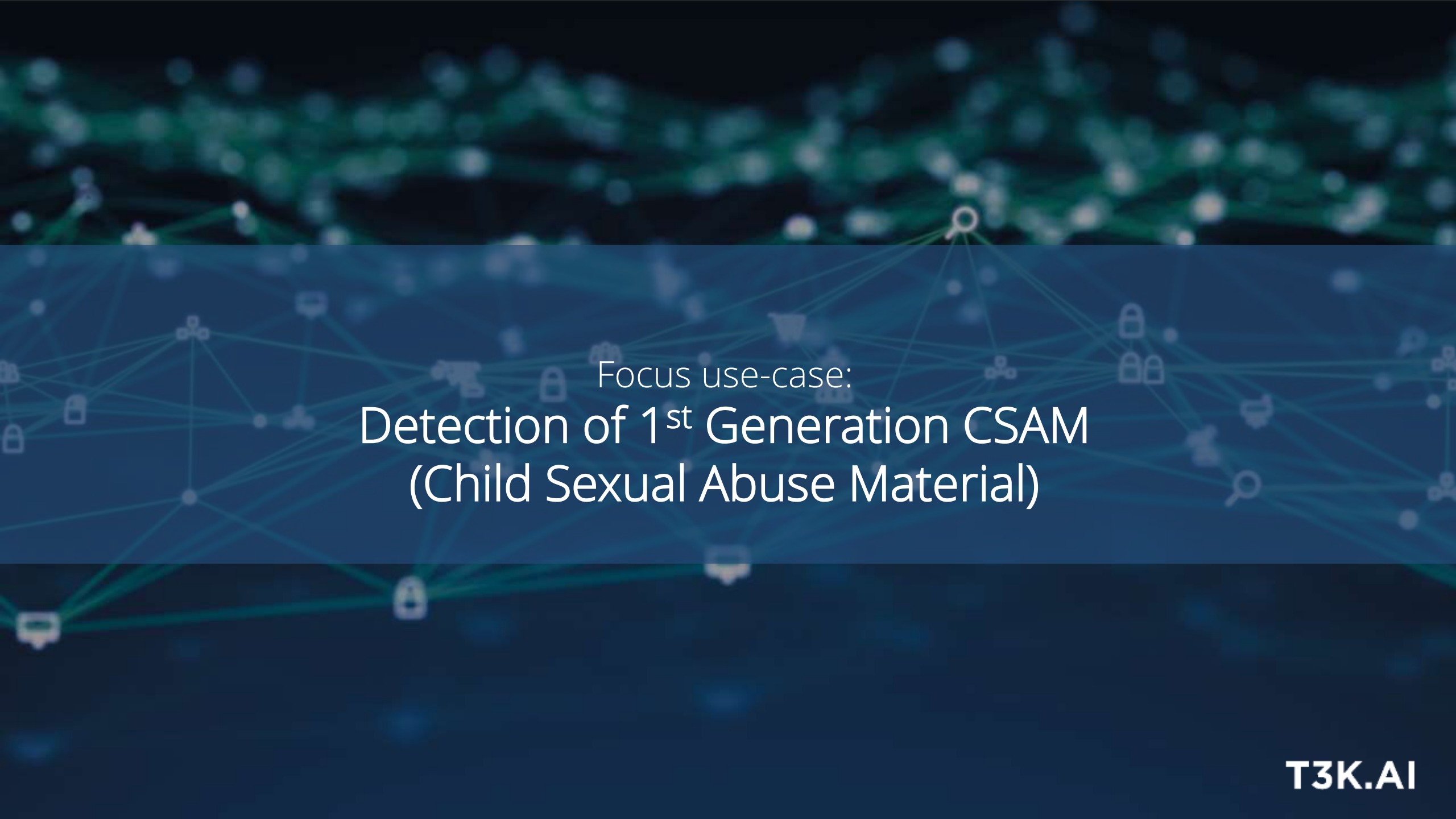
LEAP Simplified Workflow

Extraction Toolkit
(3rd Party)

Other sources

T3K LEAP

1. Data extraction

Pictures, videos, Audio

Call history, contacts, chat messages, user accounts, pictures, videos, screenshots, maps, …

2. Analysis

Law Enforcement Analytics Platform

3. Automatic report

- ✓ Cellebrite UFDR, Oxygen Forensics XML, MSAB XRY extended XML, Graykey
- ✓ Forensic Image (E01, DD)
- ✓ Audio Files

- ✓ Easy to use
- ✓ First results within minutes
- ✓ Automated analysis of text, media and links
- ✓ Use of watchlists inc OCR and Audio

- ✓ pdf, HTML or custom format
- ✓ Focused & categorized
- ✓ Hash export

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Focus use-case:
Detection of 1ˢᵗ Generation CSAM
(Child Sexual Abuse Material)

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T3K Classifier for outstanding CSAM object recognition

	Under 5	Under 10	Under 15
Naked genitals	u5_genitals	u10_genitals	u15_genitals
Completely naked	u5_naked	u10_naked	u15_naked
In underwear	u5_underwear	u10_underwear	u15_underwear

csa_face_closeup
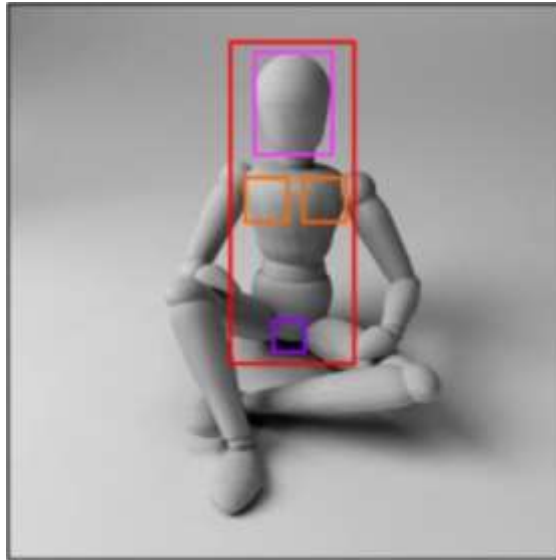
- 2-step approach: (1) naked body/ porn -> (2) child visible (order could be reversed, depending on use-case)
- High granularity of CSAM classifiers (9+1 classes)
- Individual threshold settings per class allow precise alignment with use-case

- Fast video analysis by scene frames
- Detection of faces in pictures and videos
- Individual face recognition with reference image
- Age and gender estimation based on faces

- Text recognition with OCR in pictures, videos and documents supports with the analysis of specific channels and CSAM providers (multilingual/multi-alphabet/multi-character set OCR)

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Focus use-case:
Evidence-based detection of
TVEC (Terrorist and Violent Extremist Content)

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# T3K Extremism Database of Jihadist/Salafi Contents

- \> 100,000 **images**, > 9,000 **videos**, thousands of **audios** and **PDFs/documents** from IS and al-Qaeda collected over the last 15 years
- **Monthly updates** to account for the dynamic and fluid nature of the eco system
- Items in database enriched with **explanations in English**
- **150 Arabic/transcribed keywords** used in eco system **including English explanations**
- Most relevant and popular **book titles**
- Most important **IS leadership/individuals** in Europe
- **Telegram channels/IS Media centers/European platforms** that spread relevant contents
- **28 logos** from IS and al-Qaeda (including older versions/variations)
- About **200,000 URLs** of relevant (and partly inactive) websites

- Extremely powerful tool for **hash value comparison to identify extremist contents** within minutes
- Items can be found with **OCR/text search or hash value comparison.** Explanations provided by us **explain relevance of findings.**

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#	Image	Recognized entity	Metadata
3.1		53 %: *IS Flag*	Document page number: 2 Page width: 708.0 Page height: 992.0 Document image number: 3 Coordinates: (192, 171, 512, 569) Extension: jpeg Image width: 619 Image height: 771 Image resolution: 96x96 MD5 hash: 06f69dee6077be083fbed1da54a58cb3
3.4		96 %: *Gun*	Document page number: 9 Page width: 708.0 Page height: 992.0 Document image number: 3 Coordinates: (29, 686, 245, 952) Extension: jpeg Image width: 635 Image height: 779 Image resolution: 96x96 MD5 hash: 38c1c6c0d44417cb9842ec5fd6a378c7
3.5		57 %: *Gun*	Document page number: 10 Page width: 708.0 Page height: 992.0 Document image number: 3 Coordinates: (360, 166, 681, 349) Extension: jpeg Image width: 1121 Image height: 630 Image resolution: 96x96 MD5 hash: 054cd77aab9957552f5e9c6b01092248

md5: *Book of preacher with assumed ties with AQ from Rafah, Gaza strip, who was killed by Hamas and who described characteristics of the Prophet in this publication.*

| 1.2 | | مرتد|مرتد|مرتد|مرتد|مرتد:
apostate [مرتد]
|مجاهد|مجاهد|مجاهد|مجاهد
مجاهد: *fighter* [مجاهد] | Document page number: 3
Page width: 595.0
Page height: 841.0
Document image number: 2
Coordinates: (0, 0, 595, 841)
Extension: jpeg
Image width: 1240
Image height: 1754
Image resolution: 96x96
MD5 hash:
cbca129946f04243693ccfb202f2f90b |

Technology Focus:
Usage of Innovative Analysis Tools

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Spacial Pattern Recognition

- Patterns and logos detected from sample provided by the user

- Examples
  - Logos/Branding
  - Wallpaper designs
  - Tattoos
  - Works of Art
  - Terrorist symbols

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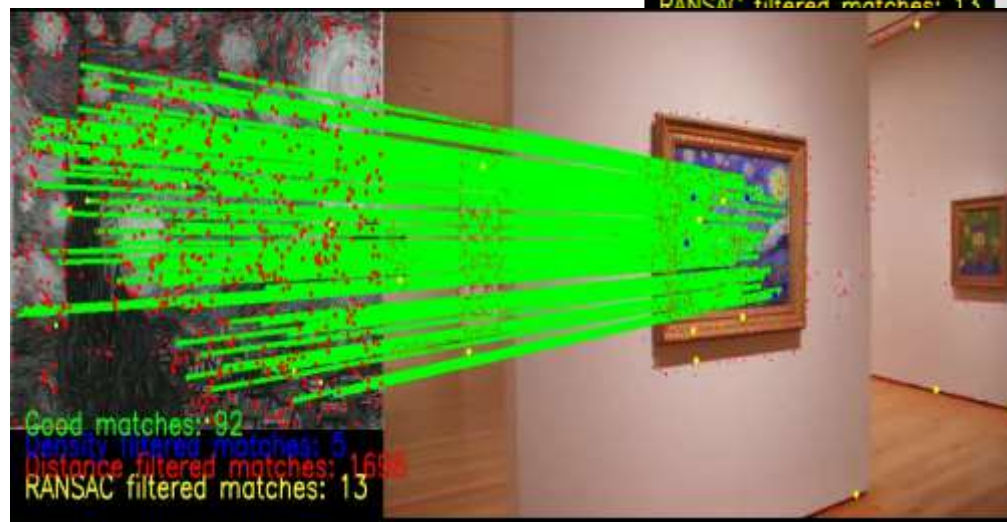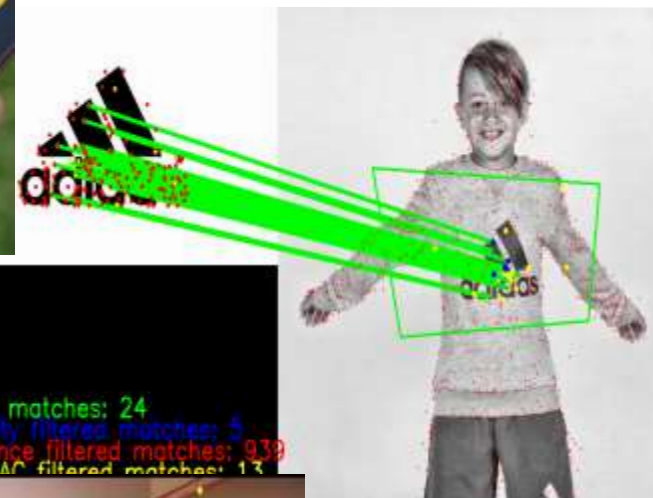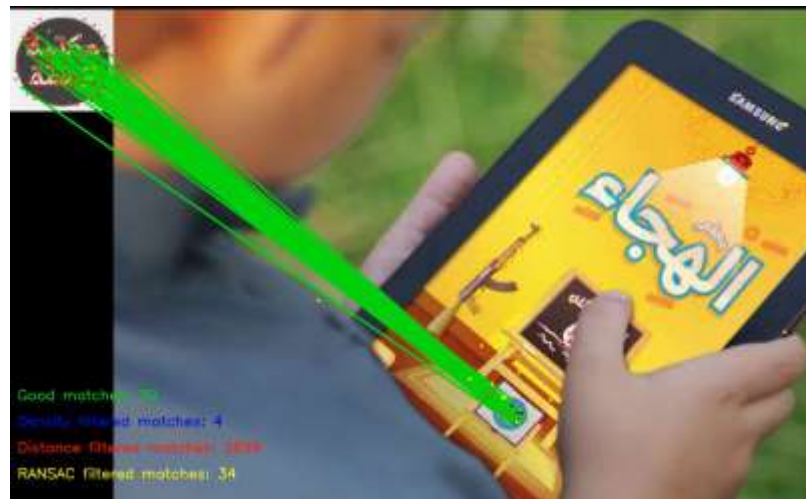
Supported Classifier Models

- Extremism/Terrorism Material
- CSAM
- ID cards & Passports
- Weapons
- Car license plates
- Maps
- Screenshots
- Documents
- Facial Recognition

Custom classifiers can be trained upon request

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