



DejaVuAI

Unparalleled Pattern-Recognition AI

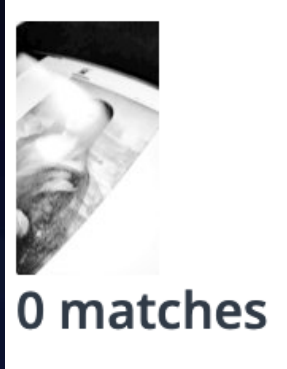
PROBLEM

WHAT IF ALL YOU HAVE TO GO ON IS A FRAGMENT?

Search Image:

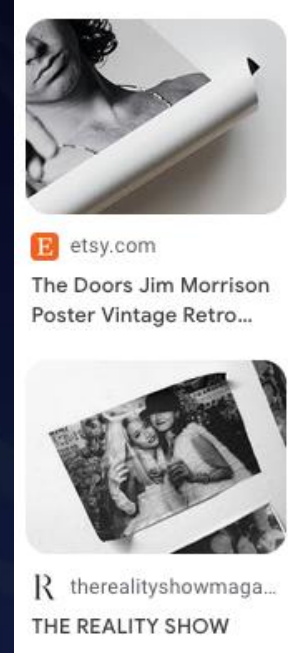


SIFT Variant:



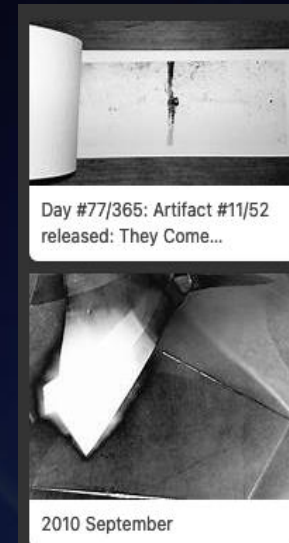
NO IMAGE FOUND

ML Variant:



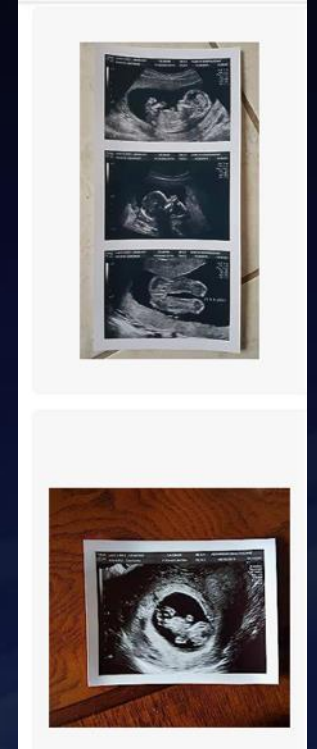
WRONG IMAGES FOUND

Hash:



WRONG IMAGES FOUND

ML Variant:



WRONG IMAGES FOUND

Current image matching approaches can't help.

SOLUTION

WITH ONLY A FRAGMENT

Search Image:



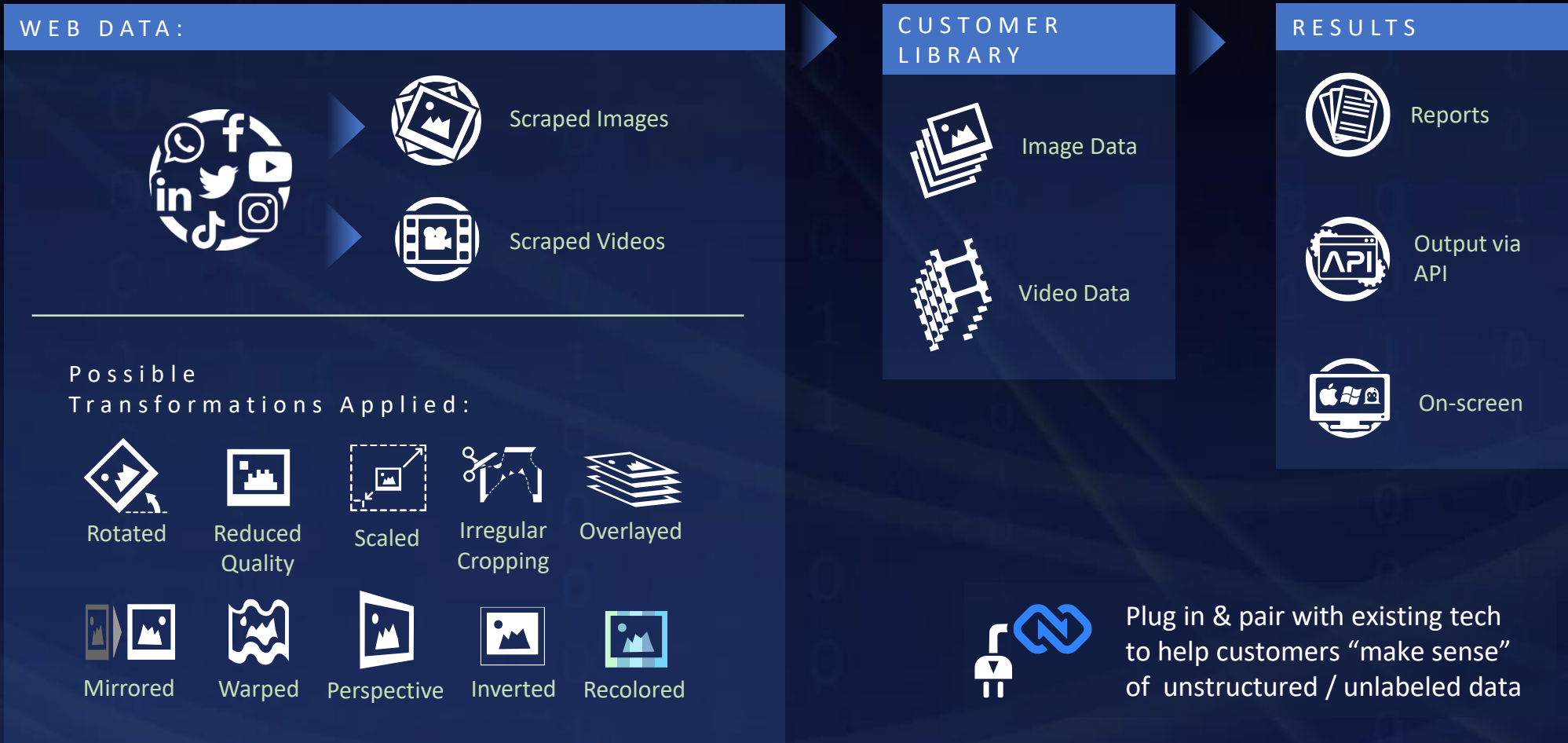
 **DejaVuAI**



Matched Pattern
97% Confidence

Matched with high confidence using pattern recognition.

LET **DejaVuAI** SORT THROUGH OCEANS OF DATA FOR YOU...



OLD VS NEW

TODAY'S IMAGE RECOGNITION FAILS

Search Image:



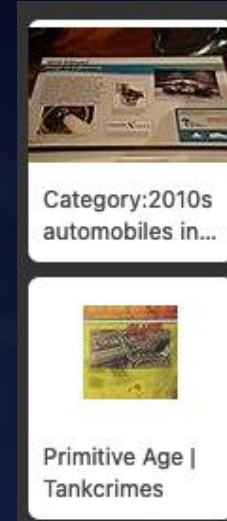
(Poster Specified)

Hash + Tagging:



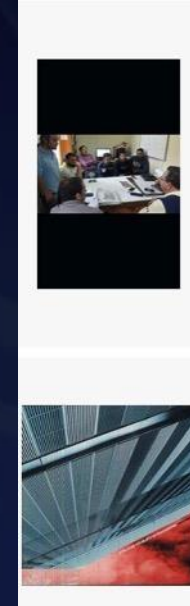
WRONG IMAGES FOUND

SIFT Variant:



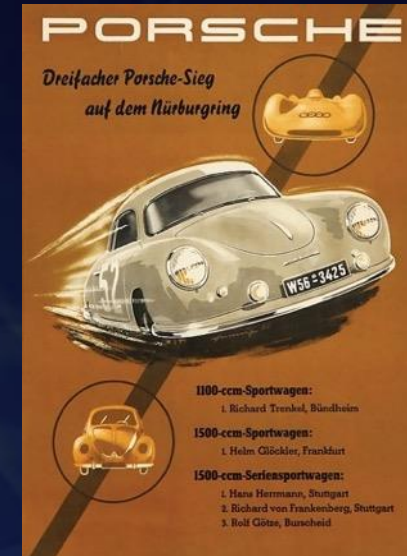
WRONG IMAGES FOUND

ML Pattern:



WRONG IMAGES FOUND

THE ALTERNATIVE PATTERN RECOGNITION SOLUTION



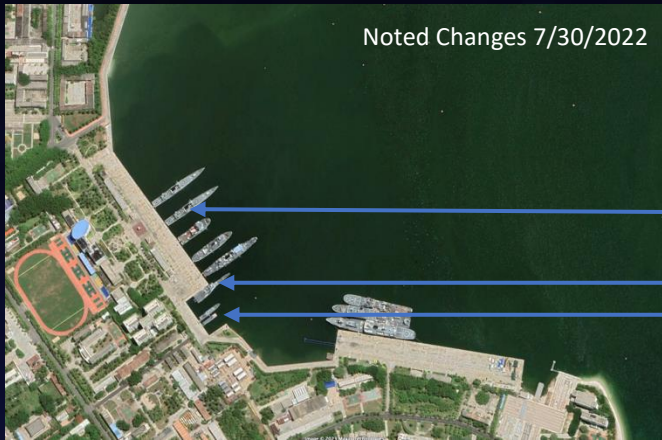
MATCH FOUND

Confidence: 92%
Angle: -1.06°
(dx, dy): (0.284, 0.24)
Scale: 1.24

Time to Search:
131 Milliseconds

OBJECT TRACKING

WITH CHANGE DETECTION



SHIP ID: PLAN 528

Ship ID: PLAN 528 (97% confidence)
 Heading: 52.8°
 Est Speed: 0
 Changes: New Configuration

Ship ID: New Design – STEALTH (97% confidence)
 Heading: 51.4°
 Est Speed: 0
 Changes: New Configuration

Ship ID: Unknown Hull (97% confidence)
 Heading: 53.1°
 Est Speed: 0
 Changes: New Configuration

SHIP ID: PLAN 528

ITEM 1

New Component: Matched Image:

Confidence: 97%
Rotation: 0°
Description: Heavy Winch

Previous Gear: Description: Cannister Cluster

ITEM 2

New Component: Matched Image:

Confidence: 82%
Rotation: 5.3°
Description: Lidar Test Array

Previous Gear: Description: Post over Hatch

OBJECT ID

Search Pattern:



STILL MATCH
(High AOA)



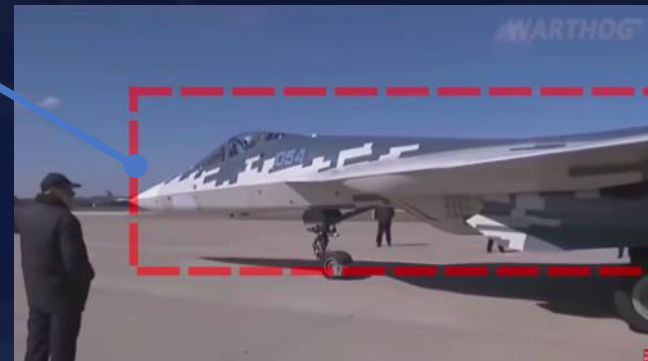
Still HQ



Still MQ



FMV LQ



FMV HQ

OBJECT ID

IN SUPPORT OF HUMAN / MACHINE TEAMING

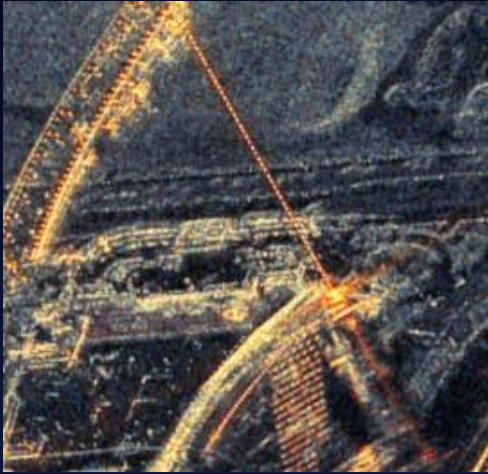


LOCATION ID

ANY SENSOR PATTERN CORRELATION (SAR EXAMPLE)

Confidence: 97%
Angle: 29.8°
(x, y): (-0.228, -0.245)
Scale: 8.31

Search Image:
(Rotated w/Skew Distortion)



PATTERN MATCH



Precision pattern
matching within
complex images

LOCATION ID

FMV to STREETVIEW

FMV MATCH
(YouTube video)



Search Image:
(Google Streetview)



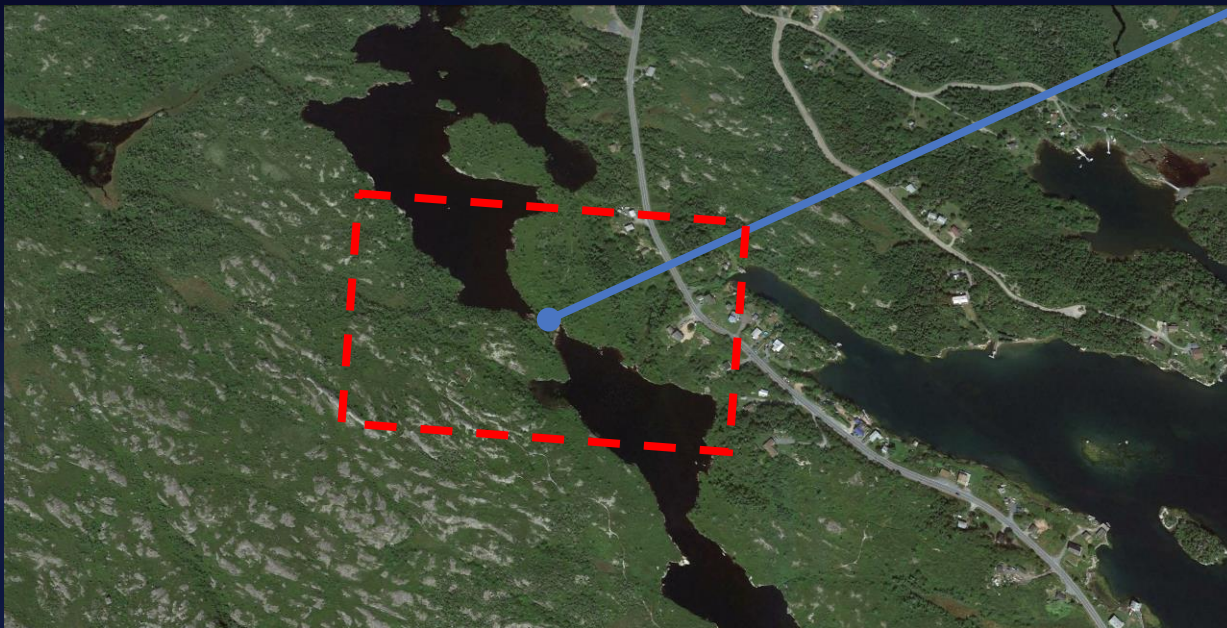
Confidence: 92%
Angle: -1.06°
(dx, dy): (0.284, 0.24)
Scale: 1.24

LOCATION ID

DRONE TO SAT

Drone Electro-Optical

SAT Image



Confidence: 91%
Angle: 176°
(dx, dy): (0.0691, -0.0132)
Scale: 3.21

FLEXIBLE ARCHITECTURE

TO MEET ANY NEED – EDGE TO CLOUD

INTEGRATION



Python .Net C++

Assist agencies achieve “continued application of data strategic objectives (Visible, Accessible, Understandable, Linked, Trustworthy, Interoperable, Secure).”

SINGLE



Media Library



UI



Index / Model



Search



Save



Integrate



Interconnect



Append Data Anytime



ENTERPRISE



Media Library



+ Append Data Anytime

UI



∞ Vertical Scaling

Front Server



Scale for Load Balancing

Search Broker



∞ Vertical & Horizontal Scaling

Search Server



∞ Vertical Scaling

Save



JSON etc.

Integrate



Orchestration Platform