



28 APRIL 2026

TO AI, OR NOT TO AI: THAT IS THE QUESTION: PRACTICAL APPLICATIONS OF NUIX AI COGNITIVE, SEMANTIC, AND GENERATIVE IN ACTION



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Pre-Sales Engineer
Nuix

PREPARED FOR



ABOUT THE **SPEAKER**



Pre-Sales Engineer

Previously Nuix EDU partner and external consultant, Senior Solutions Consultant. Nuix's customer since 2018.



18 Years working within Cyber Security, DFIR, OSINT, Competitive Intelligence, Fraud and Brand Protection investigations. Consultant roles in various international consultancy firms.



Certified trainer for EJTN, CEPOL, Italian Ministry of the Interior, and Certified Instructor Candidate at the SANS Institute for the SEC497: Practical Open-Source Intelligence (OSINT) course.



BS in Management Engineering and Master's degree in Fraud and Operational Risk.
GCFA, GCFE, GOSI, CIFI, CFIP,
ISO/IEC 27001 Lead Auditor/Implementer.

AGENDA

01 SEMANTIC AI
FINDING WHAT YOU MEAN

02 GENERATIVE AI
FROM DATA OVERLOAD TO INTELLIGENCE

03 COGNITIVE AI
ENRICHING DATA WITH INTELLIGENCE

04 KNOWLEDGE GRAPH
SURF YOUR INTELLIGENCE

05 AI FUNNELING
THE STRATEGIC ADVANTAGE

IS THIS SIMILAR TO YOUR SITUATION?

Your Role	Digital Forensics Investigator / Compliance Officer <i>Law Enforcement, Government Regulators/Agencies, Corporate In-House Teams</i>
Critical Business Issue	<i>Unable to respond to investigations quickly enough; public safety, regulatory exposure, reputational risk increasing and evidence defensibility questioned in prosecution/legal proceedings.</i>
Current State	Unable to complete investigations within required deadlines while maintaining accuracy and defensibility
Current State Problems	<ul style="list-style-type: none">• 10TB+ datasets taking weeks to process manually• Investigation backlogs growing 30% year-over-year• Staff overwhelmed by data volume + complexity• Keyword searches miss 60-70% of relevant evidence (synonyms, euphemisms, cross-language content)• Manual document review consuming 80% of investigation time• Unable to identify hidden patterns across unstructured data at scale
What You Need	AI capabilities that accelerate investigations while maintaining forensic integrity
The Value	Complete investigations 90% faster with 40% fewer staff hours while improving evidence quality

01

SEMANTIC AI

FINDING WHAT YOU MEAN

Keywords and NQL search... Search Reset

Text: Ich hasse meinen Job und brau... AND Not Excluded

text-semantic:"Ich hasse meinen Job und brauche mehr Geld"~100

Metadata Profile: Search Default Sort results by: Relevancy

Search Filters

Exclusions, Kinds, Default Search Filter, Mobile Search

- Exclusions
 - Not Excluded (200)
 - Excluded (0)
- Kinds
 - Chat Conversations (0)
 - Chat Messages (17)
 - Containers (0)
 - Documents (3)
 - Drawings (0)
 - Email (178)
 - Images (0)
 - Multimedia (0)
 - Spreadsheets (0)
 - System Files (0)
 - Unrecognised (2)
- Default Search Filter
- Mobile Searches
- Nuix Neo Investigations
- Semantic Image Searches
- Tags
 - Automate
 - ClusterRuns

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coding	Name	File Type	Item Date	File O...	Path Name				
<input type="checkbox"/>	2024-07-26 8_14_49_ [215-877-8865]	Chat Message	26/07/2024 10:14:49		/Evidence 1/Mobile/text_m				
<input type="checkbox"/>	Financial Trouble After Being Sick	RFC822 Email Message	12/07/2024 10:00:00		/Evidence 1/XcorpBank_Er				
<input type="checkbox"/>	Re: Financial Trouble After Being Sick	RFC822 Email Message	12/07/2024 11:00:00		/Evidence 1/XcorpBank_Er				
<input type="checkbox"/>	2024-07-26 8_22_49_ [215-877-8865]	Chat Message	26/07/2024 10:22:49		/Evidence 1/Mobile/text_m				
<input type="checkbox"/>	Re: Financial Trouble After Being Sick	RFC822 Email Message	12/07/2024 13:00:00		/Evidence 1/XcorpBank_Er				
<input type="checkbox"/>	2024-07-26 01_59_49_ [215-877-8865]	Chat Message	26/07/2024 3:59:49		/Evidence 1/Mobile/text_m				
<input type="checkbox"/>	Thinking About Retirement	RFC822 Email Message	16/07/2024 22:22:11		/Evidence 1/XcorpBank_Er				
<input type="checkbox"/>	2024-07-25 21_49_49_ [215-876-5309]	Chat Message	25/07/2024 23:49:49		/Evidence 1/Mobile/text_m				
<input type="checkbox"/>	2024-07-25 19_19_49_ [215-877-8865]	Chat Message	25/07/2024 21:19:49		/Evidence 1/Mobile/text_m				
<input type="checkbox"/>	Payroll Questions	RFC822 Email Message	20/01/2023 22:50:00		/Evidence 1/XcorpBank_Er				
<input type="checkbox"/>	Re: Financial Trouble After Being Sick	RFC822 Email Message	12/07/2024 12:00:00		/Evidence 1/XcorpBank_Er				
<input type="checkbox"/>	System Upgrade	RFC822 Email Message	08/01/2023 6:00:00		/Evidence 1/XcorpBank_Er				
<input type="checkbox"/>	Re: Financial Trouble After Being Sick	RFC822 Email Message	12/07/2024 16:00:00		/Evidence 1/XcorpBank_Er				
<input type="checkbox"/>	Customer Complaint	RFC822 Email Message	04/01/2023 1:10:00		/Evidence 1/XcorpBank_Er				
<input type="checkbox"/>	2024-07-25 21_39_49_ [215-877-8865]	Chat Message	25/07/2024 23:39:49		/Evidence 1/Mobile/text_m				
<input type="checkbox"/>	axurerp_pagespecificscript.js	Plain Text	13/08/2008 18:53:14	BUILTINAd...	/Evidence 2/P Drive/PGibb				
<input type="checkbox"/>	Job Posting	RFC822 Email Message	13/01/2023 18:50:00		/Evidence 1/XcorpBank_Er				

No items selected | 1 of 2 Pages | Showing 1 - 50 of 100 items

2024-07-26 8_14_49_ [215-877-88...

2 of 2 participants

Select all

215-877-8865 • 26/07/2024 10:14:49

Yes - I have crazy bills and need to get out of this job.

To +36 20 321 7821

+36 20 321 7821 • 26/07/2024 10:15:49

OK - Larry says you work as XcorpBank.

To 215-877-8865

215-877-8865 • 26/07/2024 10:16:49

Yes.

To +36 20 321 7821

+36 20 321 7821 • 26/07/2024 10:17:49

In the IT Department

To 215-877-8865

215-877-8865 • 26/07/2024 10:18:49

Yes.

To +36 20 321 7821

+36 20 321 7821 • 26/07/2024 10:19:49

OK - if you can get a list of names, addresses, ages, accounts and account balances, my

Download

Keywords and NQL search... Search Reset

Image: Ausweisdokumente wie Reis... AND Not Excluded image-semantic:"Ausweisdokumente wie Reisepass oder Personalausweis"~15

Blur images: Filter by: Select options to filter Sort results by: Relevancy

Search Filters

Exclusions, Kinds, Default Search Filter, Mobile Sear

Exclusions

- Not Excluded (33)
- Excluded (0)

Kinds

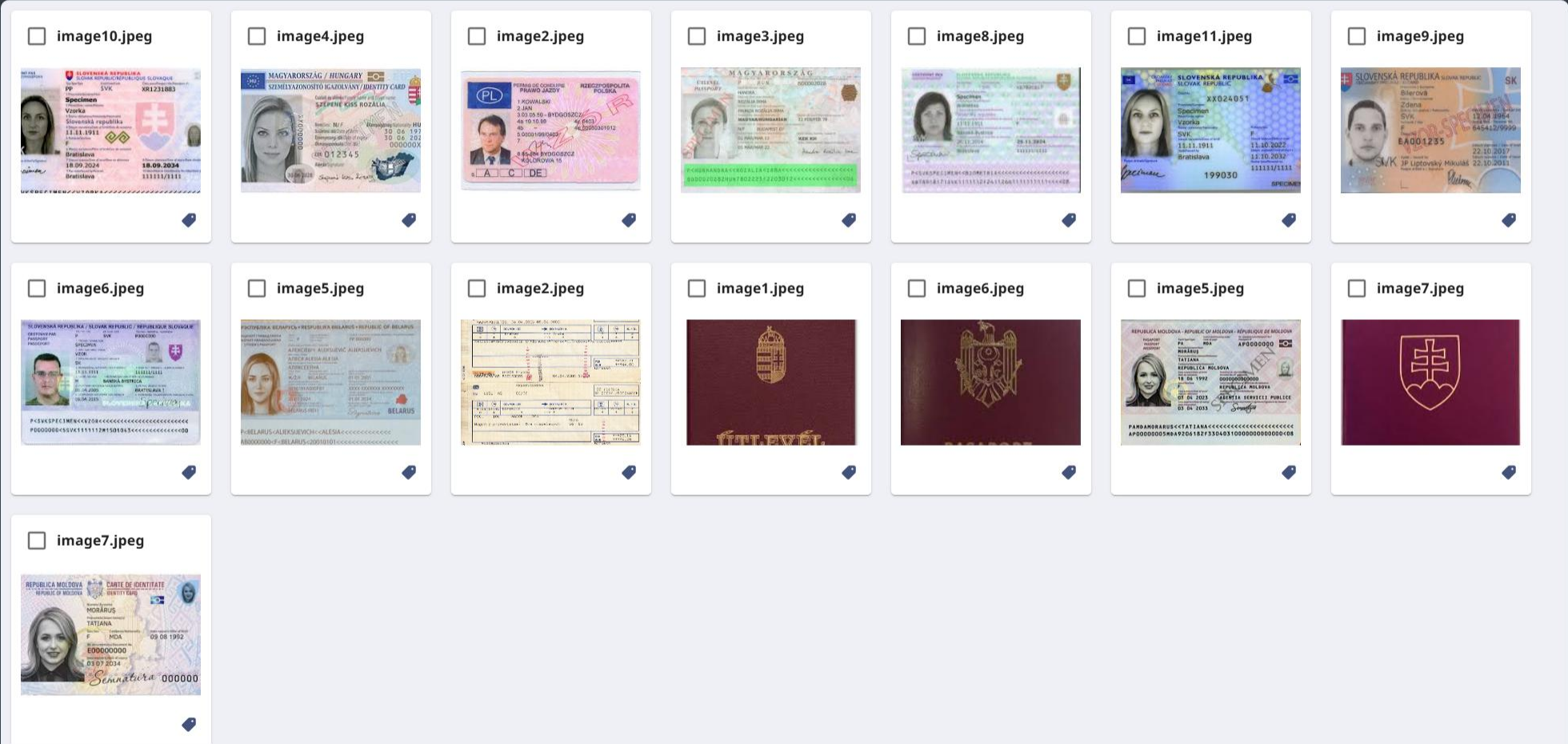
- Chat Conversations (0)
- Chat Messages (0)
- Containers (0)
- Documents (0)
- Images (32)
- Multimedia (1)
- System Files (0)
- Unrecognised (0)

Default Search Filter

Mobile Searches

Nuix Neo Investigations

Semantic Image Searches



Keywords and NQL search... Search Reset

Metzheizer AND image-semantic:"Krank... AND Hide Immaterial AND Not Excluded

Metzheizer AND image-semantic:"Krankenhaus"~0.2

Grid view icon selected


Blur images: Filter by: Select options to filter Sort results by: Relevancy

Search Filters

Exclusions, Kinds, Default Search Filter, Mobile Sear

- Exclusions**
 - Not Excluded (1)
 - Excluded (0)
- Kinds**
 - Chat Conversations (0)
 - Chat Messages (0)
 - Containers (0)
 - Documents (0)
 - Images (0)
 - Multimedia (1)
 - System Files (0)
 - Unrecognised (0)
- Default Search Filter**
- Mobile Searches**
- Nuix Neo Investigations**
- Semantic Image Searches**

2025-07-11_14-19-5...



Select All | Deselect All | No items selected

Showing 1 - 1 of 1 items

2025-07-11_14-19-57.mp4

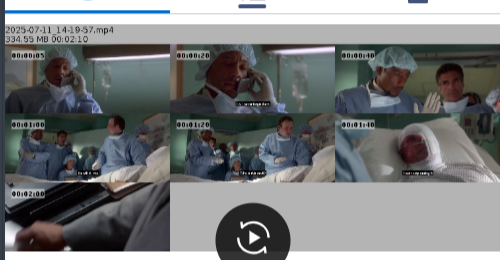


Image cannot be displayed.

The selected image exceeds the Default Preview's configured maximum file size of 100 MB and cannot be displayed. Click Download to view the image locally or contact your administrator.

Download

Item Metadata

2025-07-11_14-19-57.mp4

Standard Metadata

Sort By: Alphabetically (A - Z)

Parent Name	Surveillance
Partially Process...	false
Path Name	/Evidence 1/Sur...
PhotoDNA Robu...	
Physical File	true
Poisoned	false
Position	0-3-0
Preview Text	Yes. Yes. Yes. Ye...
Printed Image G...	
Printed Image P...	
Printed Image P...	
Production Sets	
Production Sets ...	

Preview Text:

Yes. Yes. Yes. Yes. Yes. Yes. Yes. Yes.
 Jó, kívánc Dan Metzheizer, és Kuján Fárd, a kustatot. -
 Sóán nem fog. -Sóán nem fog. -Sóán nem fog. -

02

GENERATIVE AI

FROM DATA OVERLOAD TO INTELLIGENCE

Keywords and NQL search... Search Reset

Hide Immaterial AND Not Excluded AND GenAI

Metadata Profile: GenAI/GenAI Default Sort results by: Relevancy

Search Filters

Kinds, Exclusions, Default Search Filter, Mobile Search

- Multimedia
- Spreadsheets
- System Files
- Unrecognised

Exclusions

- Not Excluded
- Excluded

Default Search Filter

Mobile Searches

Nuix Neo Investigations

Semantic Image Searches

Tags

- Automate (0)
 - Analyzed Items (0)
 - 2nd Pass (48)
 - 3rd Pass (1)
 - GenAI (3,225)
 - Failed Items (0)
 - System (0)

Name	GenAI/GenAI Pr
Dinner Plans at Arby's	No
Dreaming Big: Cars, Boats, and Travel	No
Book1.xlsx	Yes
Re: Dreaming Big: Cars, Boats, and Travel	No
Budget Update	No
Re: Dreaming Big: Cars, Boats, and Travel	No
Performance Review	No
Re: Dreaming Big: Cars, Boats, and Travel	No
Training Session	No
Re: Dreaming Big: Cars, Boats, and Travel	No
Client Feedback	No
Re: Dreaming Big: Cars, Boats, and Travel	No
Meeting Recap	Undetermined.
Re: Dreaming Big: Cars, Boats, and Travel	No
Team Building	No
Re: Dreaming Big: Cars, Boats, and Travel	No

No items selected | 1 of 65 Pages | Showing 1 - 50 of 3,225 items

Book1.xlsx

Sheet1

Ref	Client Name	Address	Sort Code	Account Number	Credit Card
00001	Phil Timms	23 summer gardens,,East molesey,Surrey,Kt89lt	200012	45892354	5434 1288 9956 1234
00002	Frank Johnson	13 high street, Bracknell, Berks,Bg1 3gh	400107	98354546	4678 3456 1234 7451
00003	Fran Murphy	64 Dornton Road Balham london SW12 1GE	302456	23458717	3989 0796 6879 3869
00004	Oliver Thompsn	6 london road Kingston Surrey Kt1 8th	205678	67345211	5678 3456 9672 4738
00005	T Smith	78 Stirling Road Manchester M7 9ws	402015	56793205	6784 4569 3456 1248
00006	Holly Twiss	14 New Road,leatherhead,Surrey,Kt19 5gh	301020	50679213	4678 3456 1234 7890
00007	Phil Timms	23 summer gardens,,East molesey,Surrey,Kt89lt	200012	45892354	5434 1288 9956 1234
00008	Frank Johnson	13 high street, Bracknell, Berks,Bg1 3gh	400107	98354546	4678 3456 1234 7451
00009	Fran Murphy	64 Dornton Road Balham london SW12 1GE	302456	23458717	3989 0796 6879 3869
00010	Oliver Thompsn	6 london road Kingston Surrey Kt1 8th	205678	67345211	5678 3456 9672 4738

Download

Item Metadata

Book1.xlsx

GenAI Default

Sort By: Alphabetically (A - Z)

GenAI

Fraud	Undetermined
Private	Yes
Privilege	Yes
Risk	The document ris...
System	
Error	
Model	gpt-4-turbo-previ...
Service	openai.com

Risk:

The document risk level is 3, which indicates a high risk. This assessment is based on the presence of personally identifiable information (PII) including client names, addresses, sort codes, account numbers, and credit card information without any evident redaction or anonymization. This type of information is highly sensitive, and if mishandled or exposed, it could lead to significant privacy breaches, identity theft, or financial fraud.

Search

- Administrative
- Data Privacy
- GenAI Summarisat
- General
- Investigate
- Investigations
- Legal
- Purview
- Sample Library
- Sandbox**
- Semantic Search
- Webhooks

Operations

1 — 2

+ - Question prompts

Name	Prompt
Risk	What's the document risk level? Answer with High, Medium or Low.

Clean up prompt response

Parse JSON output

Output JSON schema

Use follow-up prompts

Only run follow-up prompts if response matches regex

High|Medium

+ - Follow-up prompts

Name	Prompt
Source	Provide the top 3 sentences in the document that support your above claim, ensuring that the phrases provided exactly match text in the document.
Reasoning	Describe your reasoning in 1 sentence. Do not repeat the original document.

Cancel

Next

+ Add

03

COGNITIVE AI

ENRICHING DATA WITH INTELLIGENCE

Keywords and NQL search... Search Reset

(nlp:"model.defaultModel.skillsets.Busin... AND Hide Immaterial AND Not Excluded

Metadata Profile: Search Default Sort results by: Relevancy

Nuix Enrich Filters

- Dictionarys
- Risks
- Skill Sets

Select all

Relevancy

- Business Operations
 - Affiliate Agreement
 - Assignment Agreement
 - Brokerage Agreement
 - Business Requirements Document
 - Contract Manufacturing Agreement
 - Feasibility Study
 - Health and Safety Policy
 - Implementation Plan
 - Invitation for Bid
 - Online Advertising Agreement
 - Patent License Agreement
 - Project Proposal
 - Referral Agreement
 - Request for Proposal
 - Request for Quotation
 - Reseller Agreement
 - Software Requirements Document
 - Statement of Work
 - Static Report

Coding	Name
<input type="checkbox"/>	SteelVaultCorp_20081224_10-K_EX-10.16_3074935_EX-10.16_Affiliate Agre...
<input type="checkbox"/>	SouthernStarEnergyInc_20051202_SB-2A_EX-9_801890_EX-9_Affiliate Agre...
<input type="checkbox"/>	SouthernStarEnergyInc_20051202_SB-2A_EX-9_801890_EX-9_Affiliate Agre...
<input type="checkbox"/>	SteelVaultCorp_20081224_10-K_EX-10.16_3074935_EX-10.16_Affiliate Agre...
<input type="checkbox"/>	UsioInc_20040428_SB-2_EX-10.11_1723988_EX-10.11_Affiliate Agreement ...
<input type="checkbox"/>	UsioInc_20040428_SB-2_EX-10.11_1723988_EX-10.11_Affiliate Agreement ...

No items selected | 1 of 1 Pages | Showing 1 - 6 of 6 items

SteelVaultCorp_20081224_10-K-...

Exhibit 10.16
MARKETING AFFILIATE AGREEMENT
 This Agreement is made this 1st day of October 2008, (the "Effective Date"), by and between Equidata, Inc., a corporation organized under the laws of Virginia with its principal place of business at 724 Thimble Shoals Boulevard Newport News, Virginia 23606 ("Equidata"), and National Credit Report.com, LLC a Corporation organized under the laws of Florida, with its principal place of business at 7700 N. Congress Ave, Suite 3113, Boca Raton FL33487 ("Marketing Affiliate").

RECITALS

- Equidata provides certain personal credit, fraud detection, credit scoring services and credit monitoring for consumers, the ("Services").
- Marketing Affiliate and Equidata wish to enter into an agreement under which Marketing Affiliate may market the Services.
- Therefore, if accepted all parties agree that the following shall constitute a marketing agreement between the parties.

TERMS AND CONDITIONS
 Permission. Subject to the terms and conditions of this Agreement, Marketing Affiliate may display Marketing Materials at its principal place(s) of business, or at the principal place(s) of its third party partners, together with a link from the Marketing

Download

Item Metadata

SteelVaultCorp_20081224_10-K_EX-1... Expand all

- Dictionarys (1)
- Risks (2)
- Skill Sets (3)**
 - Relevancy
- Business Operations (3)**
 - Affiliate Agreement 0.95
 - Online Advertising Agreement 0.75
 - Referral Agreement 0.71
- Human Resources (1)
- Information Technology (2)

Editor

Reanalyze

Analyze File

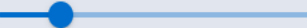



Clear

+ Add Entity

Lookup

Pipeline None

More

Min Relevance  20%Main Dictionary: **Government & Politics** 0.5752 Main Skillset: **Human Resources**Top Risk: **Financial** (and 1 more)Main Topic: **Career Planning & Employment/Independent Contracting & Self-Employment** 0.4300 Main Skill: **Confidentiality or Non-Disclosure Agreement** 0.9628 Risk Value: **1.05**

3. Obligations of Receiving Party². Receiving Party² shall hold and maintain the Confidential Information in strictest confidence for the sole and exclusive benefit² of the Disclosing Party². Receiving Party² shall carefully restrict access to² Confidential Information to² employees, contractors³ and third parties as is reasonably required and shall require those persons to² sign nondisclosure restrictions at⁴ least as protective as those in this Agreement. Receiving Party² shall not, without the prior written approval of Disclosing Party², use for Receiving Party's² own benefit², publish, copy, or otherwise disclose to² others, or permit the use by others for their benefit² or to² the detriment of Disclosing Party², any Confidential Information. Receiving Party² shall return to² Disclosing Party² any and all records, notes³, and other written, printed, or tangible materials in its possession pertaining to² Confidential Information immediately if Disclosing Party² requests it in writing.

4. Time Periods. The nondisclosure provisions of this Agreement shall survive the termination of this Agreement and Receiving Party's² duty to² hold Confidential Information in confidence shall remain in effect until the Confidential Information no longer qualifies as a trade secret or until Disclosing Party² sends Receiving Party² written notice releasing Receiving Party² from² this Agreement, whichever occurs first.

5. Relationships. Nothing contained in this Agreement shall be deemed to² constitute either party² a partner, joint⁶ venturer or employee of the other party² for any purpose.

6. Severability. If a court³ finds any provision of this Agreement invalid or unenforceable, the remainder of this Agreement shall be interpreted so as to² best to² effect the intent of the parties.

7. Integration. This Agreement expresses the complete understanding of the parties with respect to² the subject matter and supersedes all prior proposals, agreements, representations, and understandings. This Agreement may not be amended except in a writing signed by both parties.

04

KNOWLEDGE GRAPH

SURF YOUR INTELLIGENCE

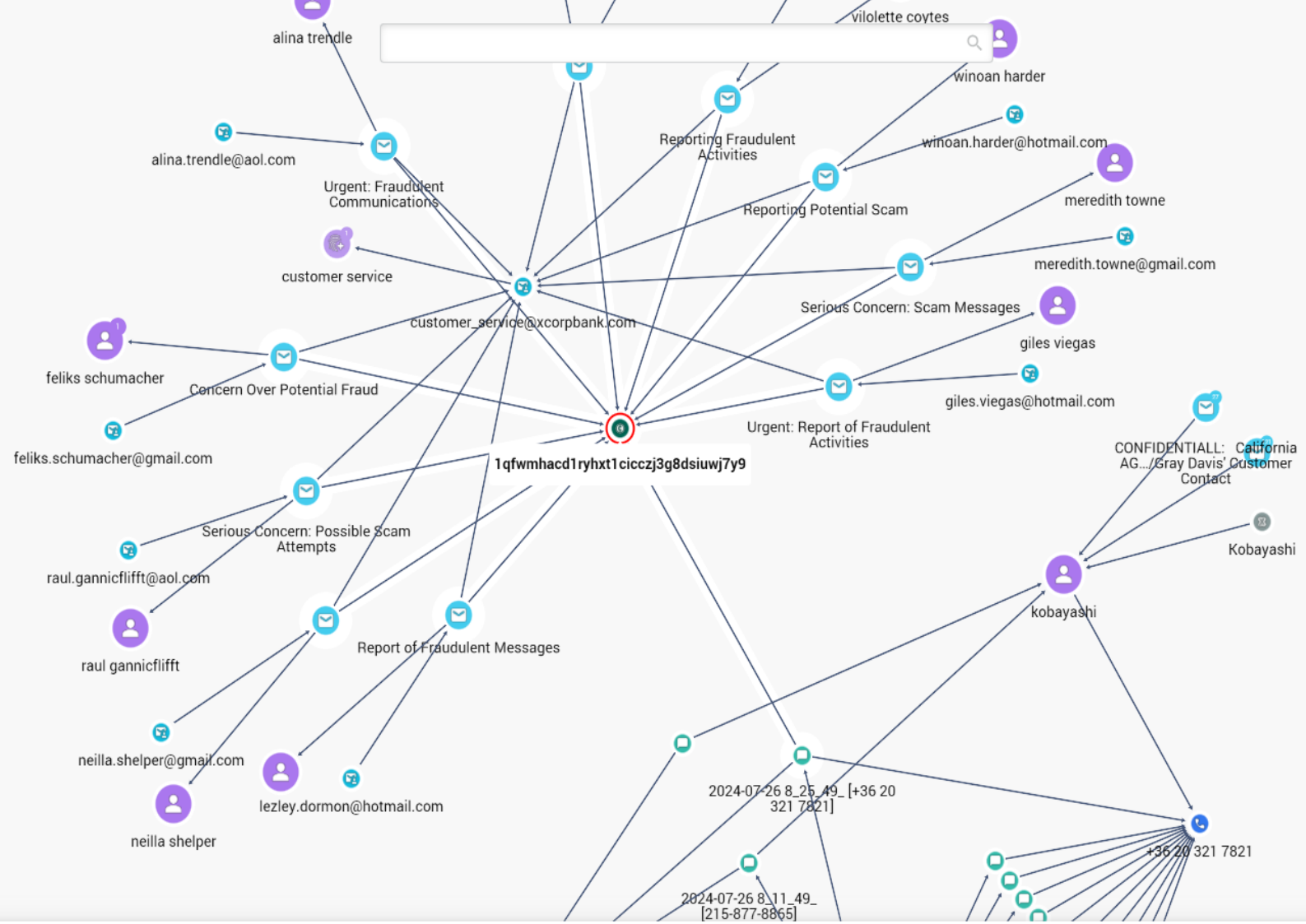
1qfwmhacd1ryhxt1 #302256
cicczej3g8dsiuwj7y9

CryptoAccount

Search in the properties

id
1qfwmhacd1ryhxt1cicczej3g8dsiuwj7y9

Not saved



TIMELINE NuxItem: itemDate MODIFY



From (UTC +2) 2001-09-07 16:34:25 X To (UTC +2) 2024-07-26 10:29:49 X

Zoom Year

Total entities	34
Invalid values	0
Missing values	0
Visible entities	34

Consult the user manual ?

05

AI FUNNELING

THE STRATEGIC ADVANTAGE

DECISION FRAMEWORK

The question isn't 'to AI or not to AI?' It's 'which AI, when, and how?'

Cognitive AI

- > **When you need:** Automated classification at scale
- > **Possible use case:** GDPR compliance, PII identification, data classification

Semantic AI

- > **When you need:** Conceptual understanding, not keyword matching
- > **Possible use case:** Finding evidence across languages and euphemisms

Generative AI

- > **When you need:** Rapid synthesis and summarization
- > **Possible use case:** Executive briefings under tight deadlines

AI Funneling

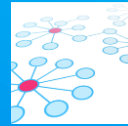
- > **When you need:** All of the above on TB+ datasets
- > **Possible use case:** Complex investigations with large dataset

“ Use the right AI at the right stage. Don't apply expensive GenAI to everything – use Cognitive AI to filter first, Semantic AI to refine, then GenAI for deep analysis of high-value content.”

“ AI Funneling is how you achieve enterprise-scale AI without enterprise-scale costs

A PARADIGM SHIFT WITH NUIX NEO >> AUTOMATION + AI

Unlock limitless possibilities with our cutting-edge Automation and Enterprise-Wide Orchestration. Seamlessly create and integrate steps into your preferred workflows across multiple systems. Effortlessly hold, collect, process, post-process, enrich, and review data like never before.



Data Clustering.

Group similar data points for efficient analysis, identifying patterns and anomalies.



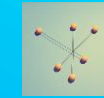
Classification & Categorization.

Automatically classify and categorize data for faster information retrieval and analysis. Natural Language Processing (NLP) Proprietary Patented Technology >> running on premises without GPU...



Entity Extraction.

Identify and extract key entities from data sources, providing a comprehensive understanding of the investigation.



Semantic Searches and more.

Understand the context of data, enabling more accurate and relevant searches beyond simple keywords in documents, images and videos and more to come into our Proprietary Patented Technology Deep Learning Framework >> running on premises without GPU...



Prompt-Based Research.

Leverage natural language prompts for advanced entity research and investigation on data and images, using your own LLM (on premise) or via a third-party provider (cloud).

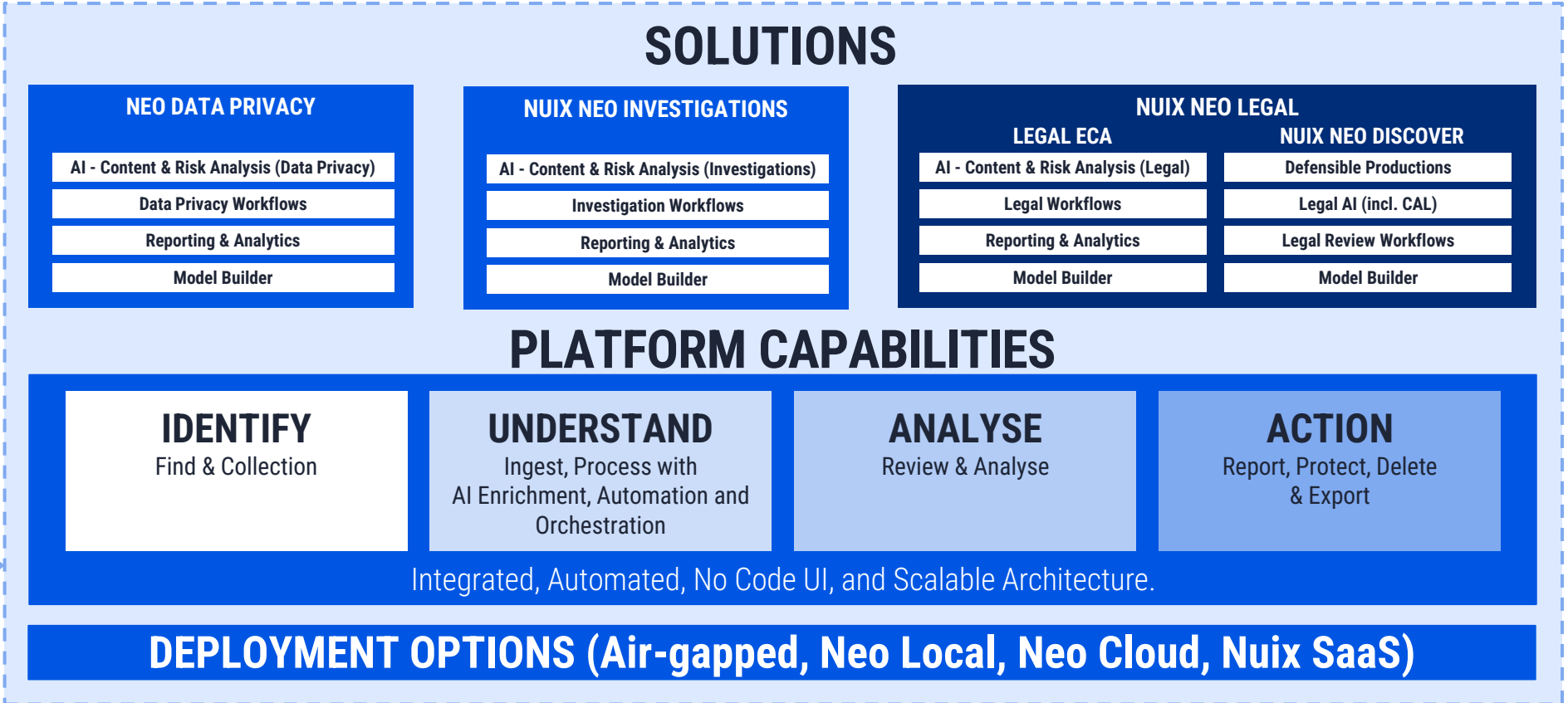
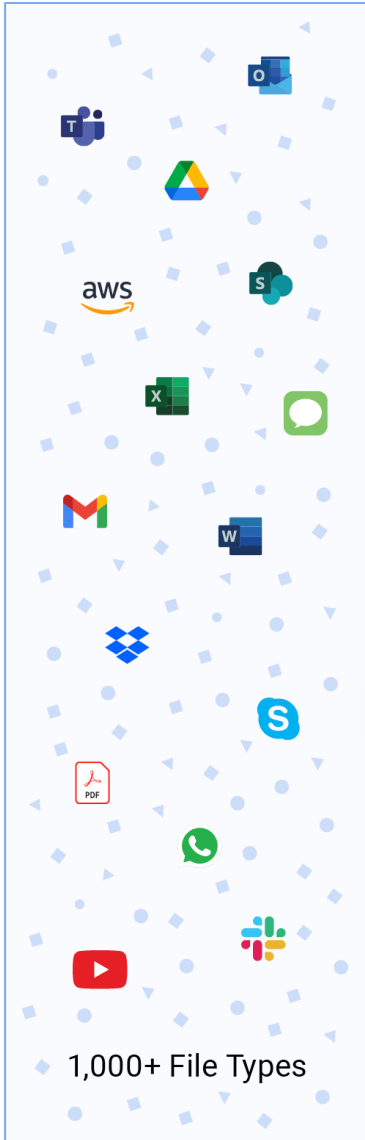


Knowledge Graph.

Construct a knowledge graph to visualize relationships between entities and their connections, uncovering hidden links, based on Entities previously extracted. Apply SNAs.

UNSTRUCTURED,
SEMI-STRUCTURED,
STRUCTURED DATA

NUIX NEO SOLUTIONS



Vielen Dank für Ihre Aufmerksamkeit

THANK YOU