BASIS TECHNOLOGY

Watchlist matching.
Intelligence gathering.
Incident prediction.

Using AI for mission-critical defense.

From Names to Actionable Insights?

Amid the complexities of National Security and Defense is the simple act of name matching. But even that's not really simple, is it? Names often don't fit neatly into a first/middle/last format — some can require eight or more fields. When translated among languages and scripts, names may be altered so much that they become unrecognizable. Add to these issues the dozens of valid spellings and nicknames for many common names, and you have a next-to-impossible name search problem. AI quickly resolves these issues with machine learning and carefully weighted algorithms to understand equivalent phonetic spellings, nickname formation patterns, and name variations within each language.

But what if intelligence operations suspect an attack on a high-profile event? A field operator intercepts documents written in Arabic from a known bad actor. AI can triage these documents in seconds, identifying potential suspects, locations, and links to known and unknown contacts and associates.

Enhancing core IT capabilities with AI-driven multilingual text triage and content enrichment improves search, focuses discovery, augments master data management, and fuels the analytics ecosystem.

AI solves issues of language, variety of expression, and ambiguity to link known bad actors with their greater network of contacts and associates. And what is that network doing? With data automatically organized as a knowledge graph, analysts more swiftly detect significant activity indicators "left of boom," and draw up actionable insights to shape operations.

This is all possible now.

Utilizing Intelligent Name Matching to Strengthen US Borders

Accuracy is the top priority of many missions that use human language technology — and if there is a hole in the system, it is critical to security and commerce for the country. Missing even a single match against a watchlist puts citizens at risk. U.S. Customs and Border Protection (CBP) needed a foolproof solution to prevent known watchlist individuals from passing through screening. By integrating Basis Technology into its existing screening system, CBP added greater name matching accuracy — and ultimately greater security — to its border protection efforts.

U.S. Customs and Border Protection

The Most Trusted AI Company You've Never Heard Of.

Serving intelligence agencies and law enforcement worldwide for over 20 years.

Over the last 25 years, Basis Technology has developed the leading AI-powered software for multilingual text analytics, enabling cross-lingual semantic search and high-fidelity identity resolution. Our tools handle the challenges associated with many variations in the names of people, organizations, and locations around the world. Our algorithms address the variety and ambiguity of name-centric data to accurately and intelligently find matches quickly.

How is Rosette different from other language software?

In the world of human language technology, there are two main categories of tech: text analytics and machine translation. Unlike machine translation, our platform Rosette analyzes content in its original language, which preserves all of the original context and quite literally ensures that nothing is "lost in translation".

Rosette offers a broad suite of leading capabilities for extracting knowledge from text. It can:

- Triage documents for known bad actors mentioned in untranslated text in 21 languages and 13 variation types, including cross-lingual.

- Intelligently match and recognize the same names or aliases written within the same language or in different languages and scripts.

- Leverage document context to link names to real-life actors in existing knowledge bases.

- Semantically understand and detect phrases showing similar relationships, such as "Hatem Fulan was at <location>".

- Detect topics discussed in documents based on key phrases and concepts.

- Reduces false positives and false negatives.

- Ranks results by match score.

Contact us for a custom demo.

See how you can identify (and catch) people of interest!

SITA

U.S. DEPARTMENT OF HOMELAND SECURITY

CACI
EVER VIGILANT

DEFENSE INTELLIGENCE AGENCY UNITED STATES OF AMERICA

Home Office

BASIS TECHNOLOGY

www.basistech.com   info@basistech.com