



Artificial Intelligence Solutions for Enhanced Border Security

BABEL STREET ANALYTICS

Detect threats and deter cross-border crime

Border security agencies face increasingly complex challenges as they deal with a wide range of cross-border threats, including terrorism, human trafficking, and smuggling of drugs and contraband. The success of today's border security missions relies on the use of human language technology — whether it's matching names to watchlists, sifting through open-source data, or extracting insights from billions of chat messages.

Border security agents have only minutes to screen each traveler, so the information must be as accurate as possible. Names are rarely straightforward and highly variable. Misspellings, honorifics, titles, mis-ordering, missing hyphens, or spaces between names all lead to difficulty in matching names of people and organizations. Multilingual text adds another layer of complexity.

AI solutions for name matching use carefully tuned algorithms to understand transliteration spelling variations, nicknames, and the numerous ways names vary within each language.

To surface information before a border crossing happens or investigate past crossings, AI uses entity recognition to extract mentions of individuals, locations, and organizations from

unstructured text, and checks them against known entities in a knowledgebase for advanced threat detection. The speed of AI systems can accomplish in minutes what takes humans days to do, such as analyzing text to detect signals around potential attacks, drug trafficking, or other illegal activities.

What's at risk?

In high-stakes name matching situations, such as border security, a false negative result from checking a passport against a national security watchlist could admit a potentially dangerous person into the country. At the very least, too many false positives can result in inefficient manual processes that slow border operations.

In any national security situation, incomplete information can put lives at risk. The same is true for border security as dedicated agents seek to detect and intercept the cross-border activities of increasingly sophisticated criminal networks. Without equally sophisticated technology, border security agencies won't have the needed information to respond to new threats and challenges.



Trusted by border security organizations worldwide

Babel Street Analytics is AI-powered software for multilingual text analytics. Comprised of Match and Text Analytics, it's currently in use across border security, defense, and intelligence organizations worldwide. Babel Street Analytics addresses the complexities associated with matching names to watchlists and extracting knowledge from text. It integrates with search engines and applications, so there's no need to replace existing systems.

Key capabilities include:

Name matching — Match handles the challenges associated with variations in the names of people, organizations, and locations around the world.

Entity extraction — Multiple approaches, such as pattern matching, statistical models, and deep-learning models, maximize accuracy for each entity type.

Event extraction — Text Analytics detects mission-specific events from text — no matter how they are expressed — including key people, places, organizations, and dates/times.

Cross-lingual semantic search — Babel Street Analytics enables analysts to expand searches beyond keywords to find matches based on meaning.

Anticipating and responding to cross-border threats can feel impossible...

With Babel Street Analytics, welcome to what's possible.

Harness the power of PAI to tackle your border security challenges

Open-source intelligence (OSINT) continues to transform the way governments conduct mission-critical operations. Border security organizations that can easily harness and unlock the power of real-time, cross-lingual publicly available information (PAI) will drive greater efficiency and effectiveness across threat intelligence, identity and risk management, and alerting.

Capturing and using PAI effectively, especially across multiple languages and geographies, requires automation, expertise, and the right AI-enabled technologies. The comprehensive range of publicly available information provided in Babel Street Insights opens a world of access to best-in-class enriched data that drives greater success for border operations at all levels.

Babel Street is the trusted technology partner for the world's most advanced identity intelligence and risk operations. The Babel Street Insights platform delivers advanced AI and data analytics solutions to close the Risk-Confidence Gap.

Babel Street provides unmatched, analysis-ready data regardless of language, proactive risk identification, 360-degree insights, high-speed automation, and seamless integration into existing systems. We empower government and commercial organizations to transform high-stakes identity and risk operations into a strategic advantage.

Learn more at babelstreet.com.



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