

Babel Street Match for Augmenting Screening Systems

BABEL STREET ANALYTICS

Many financial institutions (FIs) are deeply invested in name match systems that can't be easily replaced, even though they may be impeding crucial compliance workflows and transaction processing.

Babel Street Match is an AI-powered product for organizations whose risk and identity operations depend on correctly matching names. With advanced algorithms to accurately match names across multiple languages, scripts, and cultural variations, Match provides intelligent name, address, and date matching.

Using a RESTful API, Match seamlessly augments existing systems to add accuracy for these critical use cases:

Sanctions/watchlist screening – Match post-processes the output from an existing system to dramatically decrease the number of false positive matches, reduce manual labor, and speed onboarding.

ID verification – As a step in determining whether a prospective customer is who they say they are, Match quickly assesses whether the name on one list matches a name on another list.

Transaction processing – Accurate name match contributes to a positive customer experience by minimizing the chances of payment delays,

Benefits

- Lightweight post-processing to identify false positives in output of existing solution
- Cuts cases requiring manual review up to 75%
- Intelligently matches record fields: name, organization, address, DOB, and more
- Supports high-volume, high-velocity environments
- Reduces customer frustration due to needless rejection or delay
- Customizable match behavior to fit your data profile and risk policy
- Explainable AI satisfies regulatory requirements

rejections, or disputes that may arise from discrepancies in the names provided during the transaction.

As a lightweight augmentation to an in-house system, Match uses advanced algorithms to re-evaluate the output from the system and rank the results according to their likelihood of being a true match. It immediately assesses whether two names from different sources refer to the same person.

Babel Street Match refines system output for greater efficiency



Key Features

Integration via API to the Match cloud

It is quick and easy to implement Match as an enhancement layer to an existing system. As results come back from the current name search, they are sent for processing via an API call.

Intuitive match confidence indications

Unlike other matching systems, Match indicates its confidence that the two names match. It also provides an explanation for how it arrived at that assessment, which is important for satisfying regulators.

In-depth knowledge of names across languages

Match understands how names can vary across cultures and over 20 languages, particularly non-Latin languages like Arabic and Chinese.

Use of other identity attributes

Where other data points are available, such as address and date of birth, Match will intelligently match those components and factor them into the match score calculation.

Babel Street Match understands over 15 ways names vary

Phonetic similarity

[Kailey](#) ↔ [Caylee](#) ↔ [Kaylie](#)

Transliteration spelling differences

[Abdul Rasheed](#) ↔ [Abd al-Rashid](#)

Nicknames

[William](#) ↔ [Will](#) ↔ [Bill](#) ↔ [Billy](#)

Missing spaces or hyphens

[MaryEllen](#) ↔ [Mary Ellen](#) ↔ [Mary-Ellen](#)

Titles and honorifics

[Dr.](#) ↔ [Mr.](#) ↔ [Ph.D.](#)

Truncated name components

[Blankenship](#) ↔ [Blankensh](#)

Gender

[Jon Smith](#) ↔ [John Smith](#) (but not [Joan Smith](#))

Missing name components

[Phillip Charles Carr](#) ↔ [Phillip Carr](#)

Out-of-order name components

[Diaz, Carlos Alfonzo](#) ↔ [Carlos Alfonzo Diaz](#)

Initials

[J. E. Smith](#) ↔ [James Earl Smith](#)

Name split inconsistently across database fields

[Rip · Van Winkle](#) ↔ [Rip Van · Winkle](#)

Same name in multiple languages

[Mao Zedong](#) ↔ [Мао Цзэдун](#) ↔ [毛泽东](#) ↔ [毛澤東](#)

Semantically similar names

[PennyLuck Pharmaceuticals, Inc.](#) ↔ [PennyLuck Drugs, Co.](#)

Semantically similar names across languages

[San'in Telegraph and Telephone Corporation](#) ↔ [山陰電信電話株式会社](#)

Organizational aliases

[Boston Brewing Company](#) ↔ [BeantownBeer](#)

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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