

Ensure Your Data is Accurate with Unequaled Search and Matching Capabilities

Key Benefits

- Identifies regions of similarity between any type of data entity in any language or format
- Quickly handles many of the issues that plague real-world data – from transpositions and typos to information that's entered in the wrong field
- Large datasets can be analyzed with sub-second response times
- Highly interoperable, it functions as an independent index so that other applications are barely affected

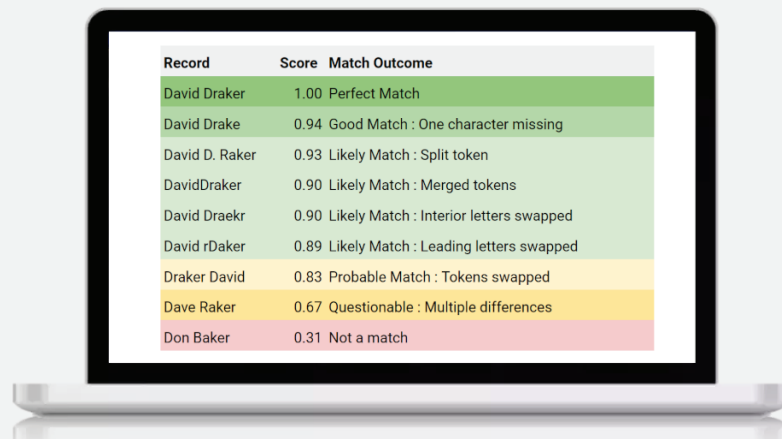
ibi™ Patterns - Search is part of **ibi™ Data Intelligence** - a single integrated offering that brings together diverse data management functionalities. Gain operational efficiency, reduce costs, and ensure data accuracy with our holistic solution for your data strategy.

How Does it Work?

Can you effortlessly explore, locate and relate data assets across various sources, databases, and systems within your organization? Organizing, accessing, and harnessing the power of your data requires advanced enterprise search capabilities with efficiency and precision.

ibi™ Patterns - Search is an AI-enabled matching platform that goes beyond traditional search methods to automatically detect and resolve discrepancies, inconsistencies, and errors with human-like precision. It intelligently analyzes large data sets, identifying similarities, patterns, and connections that may not be apparent to the human eye.

Whether you're dealing with customer data, product information, or any other complex data set, Patterns streamlines the data matching and entity resolution process, saving you valuable time and resources. Moreover, Patterns integrates seamlessly with your existing data infrastructure, providing a scalable and efficient solution that can be easily deployed on-premises or in the cloud.



Record	Score	Match Outcome
David Draker	1.00	Perfect Match
David Drake	0.94	Good Match : One character missing
David D. Raker	0.93	Likely Match : Split token
DavidDraker	0.90	Likely Match : Merged tokens
David Draekr	0.90	Likely Match : Interior letters swapped
David rDaker	0.89	Likely Match : Leading letters swapped
Draker David	0.83	Probable Match : Tokens swapped
Dave Raker	0.67	Questionable : Multiple differences
Don Baker	0.31	Not a match

Benefits to User:

- Advanced Search & Record Matching**
 With patented matching algorithms, the Patterns Advanced Search and Record Matching scales well on large text and is language independent. It provides for more human-like judgments of similarity including character rearrangements, insertions, deletions, token rearrangements, and merged/split words.
- Machine Learning Platform**
 Patterns has Machine Learning functionality that provides a means of training Learn Models for more accurate record-matching decisions. The Learn UI guides users through all steps of preparing training data, training and evaluating the model, and defining features (groups of important fields), and will train the model to provide suggestions for improving its performance.
- Data Durability**
 To ensure your data is always safeguarded from loss or corruption in the event of an outage or failure, Data Durability allows for efficient recovery of up-to-date data. It automatically synchronizes on-disk and in-memory data to ensure data is reloaded after a planned or unplanned outage.
- Scalable & Robust**
 The gateway supports clustering of servers for large datasets.
- Connectivity**
 Robust integration allows support of multiple APIs, including C, .NET and Java. A Java Native Interface (JNI) between the Java API and the "C" API allows the server to be embedded in a JVM.
- Cloud-Native Deployment**
 Simplify your deployment with containerized versions of ibi Patterns - Search on container based platforms including Docker and Kubernetes. This enables you to scale up or down with container clusters while easily running and managing the Patterns Server

The ibi™ Data Intelligence Difference

Data Intelligence brings together the power of ibi solutions to create a unified end-to-end data management solution. Now, you can support your entire lifecycle of data and analytics projects and deliver business value from a single solution. Because our broad set of capabilities are integrated and unified, you will benefit from cost savings, increased productivity and efficiencies, and the ability to scale your data management operations. Upgrade to ibi™ Data Intelligence to modernize your data management strategy.

Use Case Example:

A prominent global airline, serving millions of customers, faced challenges in managing an accurate customer database. With **90+ million customer records** from diverse data sources, they were facing data deficiencies, inconsistencies, and redundancies. With Patterns-Search, they streamlined data aggregation, automated error identification, and resolved inconsistencies - to eliminate 38 million duplicate records. Now, they have a unified, trusted customer dataset to drive better customer insights and personalized services.

Learn more about ibi™ solutions: www.ibi.com



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ibi delivers a modern data and analytics software platform that helps organizations harness the power of data to drive informed decision making. Fuel your digital transformation with data management and business intelligence capabilities to support large-scale deployments with embedded analytics and enterprise reporting built for cloud and hybrid environments and backed by deep industry expertise.

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