Intelligent Data Processing

Unleash the Power of Your Data: Drive Engagement and Growth

Tired of traditional data solutions? Enter the future of banking analytics with our unparalleled platform.

Packed with industry-specific information extraction features, it's designed to:

- **Boost Customer Engagement:** Elevate every customer interaction with data-driven insights, fostering loyalty and driving growth.
- **Streamline Operations:** Automate tasks, optimize workflows, and gain real-time visibility into your bank's performance.
- **Manage Compliance and Mitigate Risk:** Proactively identify potential issues and ensure robust, transparent compliance across all data activities.
- **Extract Deep Data Insights:** Go beyond the surface and uncover hidden patterns that unlock strategic opportunities.
- E**mpower Your Customers:** Personalize journeys, anticipate needs, and deliver exceptional experiences across every touchpoint.

This isn't just data management - it's data power

Seamless Integration - Connect any data source, from core systems, customer clickstreams, to social media, for a holistic view of your customers and operations.

User-Friendly Interface - Access powerful tools and insights instantly, with no technical expertise required.

Ready to transform your bank and empower your data? Contact us today and discover how our subscription service can drive engagement, simplify compliance, and propel your growth.

Use Cases:

Data Insights: Generate actionable insights with our data profiling and quality tools that draw from structured and unstructured data sources.

Efficient Information Retrieval: Utilise our state-of-the-art semantic and natural language search capabilities for fast access to pertinent information across customer and internal documents.

Sentiment Analysis: Utilise machine learning models to conduct sentiment analysis on customer communications, enhancing customer service strategies.

Semantic and Natural Language Search: Deploy advanced multimodal enterprise search across any internal and customer records and documents to easily and quickly retrieve relevant information.

KYC and KYB Compliance: Streamline KYC and KYB processes using our data management solutions to ensure compliance, rude risk, and search identity documentation.

Contact us today to learn how our platform can unlock the hidden potential in your data and propel your bank to the forefront of data-driven success.

IQaaS
unlock hidden insights

Platform Features

Data Stores and Integration

- **Multiple Data Stores:** URLs, folders, multi-model databases, and document library systems can be integrated as sources and sinks, providing a versatile environment for accessing or storing various data formats. Giving flexibility and supportability options for secure and reliable information storage.
- **Flexible Data Processing:** Utilising ELT, streaming events, APIs, and CDC methods, our service enables batch, micro-batch, or real-time data accuracy and availability for informed decision-making. Making it suitable for all data processing requirements and approaches.

Advanced Natural Language and Semantic Search

- **Hybrid Data Retrieval:** The architecture employs multimodal search indexes, enabling sophisticated query capabilities that transcend traditional text search. This feature allows for querying across various data types, including numerical, textual, and even geospatial, ensuring that relevant information is accessible with precision and speed.
- **Vector Data Stores:** Coupled with a vector database, the platform can perform high-speed similarity searches, which are essential for implementing features like recommendation systems, fraud detection, and complex data relationship analysis.
- **Scalable and Agile:** Designed to scale with the bank's growth, the search system adapts to increasing data volumes and complexities without compromising performance.
- **Enhanced User Experience:** The intuitive search functionalities significantly improve the user experience, enabling bank employees to find information quickly and customers to receive more accurate responses.

Customer, Partner, or Staff Engagement

- **Diverse Channels:** Our platform integrates with your customer channels like Web, Email, and native Apps enabling a versatile customer experience through secure methods. We can provide additional omni-channel data collection via new chat interfaces, social messaging, alongside the more common web URLs or RESTful open API specifications.

Data Access and Distribution

- **Materialised Data Views:** The platform supports materialised views, which pre-compute and store complex query results for swift data retrieval. This optimises performance by reducing query times and server load, thereby facilitating more efficient and faster access to aggregated data.
- **Advanced Caching Mechanisms:** The system includes advanced write-through and write-behind caching strategies that significantly reduce data retrieval times and improve overall system performance. By storing frequently accessed data in a rapidly accessible cache layer, the platform enhances the efficiency of data operations, supporting scalability and reducing latency in high-demand environments.
- **Flexible Data Access:** Data can be accessed and manipulated via SQL, JDBC, REST APIs, event topics, message queues, and HTTPS protocols, ensuring high compatibility and security.
- **Strong Encryption:** Protect data at rest or in flight with BYO cryptographic keys with any algorithm, that can be used alongside automatic masking features for sensitive data.

Metadata Management and Catalogue

- **Data Models:** A default common data model based upon Open Banking standards and dictionary can be availed or extended. Alternatively custom schemas can be employed to store data if required.
- **Standardised Metadata Framework:** Standard tagging and data classification strategies are employed for PII and PCI data, schemas and profiles, and master and reference data management.
- **Robust Metadata Portals:** The optional Metadata Catalogue and Feature Store empower banks with the tools for data governance, discovery, and machine learning applications.

Structured Data Handling

- **Optimised Data Storage:** Columnar, relational, and operational data stores are optimised for different use cases from reporting and analytics to transaction processing.
- **Seamless Data Integration:** Facilitate simple data integration across different structured data stores, enabling a cohesive data environment that supports complex banking operations and analytical needs.
- **In-Memory Stream Processing:** The architecture integrates in-memory capabilities, enabling real-time stream processing for instantaneous data analytics. This allows for the rapid execution of complex queries on live transactional data, ensuring minimal latency and maximised throughput critical for time-sensitive financial operations.

Unstructured Data Management

- **Flexible Unstructured Data:** Key-value and document databases, along with a flexible schema-less data lake, provide the foundation for storing and analysing unstructured data.
- **Data Migration and Transformation:** All unstructured data can be copied, converted, or synchronised to other schemas, formats, and types e.g. row or columnar based relational databases, or storage efficient binary and encoded formats like Parquet or Arrow.

Synthetic Data Generation

- **Secure Data Prototyping:** Our platform includes a synthetic data generator capable of producing realistic and anonymised datasets that mimic actual operational data. This facilitates secure data prototyping, enabling the development of data-driven applications without exposing sensitive customer information.
- **AI-Powered Data Creation:** Utilising AI algorithms, the service can create complex data structures and relationships, supporting the testing of advanced analytics, machine learning models, and data processing workflows.
- **Customisability and Compliance:** The generated synthetic data adheres to compliance standards, ensuring that data privacy regulations are met. Banks can customise the parameters of the synthetic data to align with specific testing scenarios and regulatory requirements.

Test Data Management

- **Efficient Data Lifecycle Management:** Our test data management tools provide a comprehensive suite of functionalities to manage the lifecycle of test data, from creation and maintenance to archiving and disposal.
- **Data Quality and Relevance:** The service ensures that the quality and relevance of test data are maintained, reflecting realistic operational conditions that the bank's data systems will encounter.
- **Segregation and Data Masking:** With rigorous environment segregation and data masking techniques, the platform guarantees that test data is securely handled, and production environments remain unaffected by testing activities.

Our service is a one-stop capability for banks that understand the need to elevate their data management, unless hidden insights, and revamp their customer engagement strategies.

By leveraging our suite of tools and technologies now, or building them into your journeys and solution, you will achieve a competitive edge as you move with enhanced velocity into today's data-driven landscape.

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