Dolffia
Unlocking unstructured data with NLP
by everis

Unlocking the value in your documents

Businesses have long sought a way to automatically process the growing quantity of unstructured documents they deal with every day. Dolffia leverages the powerful cognitive capabilities of modern AI to solve this challenge, considerably reducing the time and effort needed to process documents manually and allowing businesses to extract more value and insight from their content.

an everis syntphony product

What is Dolffia?

Dolffia is an AI-based document processing platform that automatically classifies a wide range of document types and extracts the salient information they contain at speed and with high levels of accuracy. By automating repetitive manual processes, Dolffia boosts throughput, reduces human errors and allows employees to focus on tasks requiring human judgment.

Value Proposition

Many businesses have experienced a steep increase in the volume of documents they have to handle, particularly those in sectors such as legal, insurance and financial services.

The bulk of documents handled today contain unstructured data, which is **difficult to analyze** quickly and not easily searchable. It has traditionally been time-consuming to extract useful information from unstructured documents as manual processing is required.

This creates a bottleneck for businesses as manual processing is slow and error-prone. If you handle 100 documents a day, the manual effort is perhaps manageable, but much less so with workloads of 10,000 documents a day or higher, particularly if the documents are complex and diverse.

Recent advances in artificial intelligence in the areas of **machine learning and natural language processing** now make it possible to largely automate the classification and extraction of information from a wide variety of documents, no matter how complex, and to do so **accurately** and at **scale**.

By automating the classification and extraction of information, businesses can derive **actionable insights**. Using sentiment analysis, for example, they can identify customer sentiment towards their product or service by analyzing complaint forms.

The information that **Dolffia** extracts can also be used to drive downstream business processes using RPA, for example, to create an end-to-end automation solution.

Benefits

- **Fast and scalable**
  Dolffia can extract all key information from documents rapidly and at scale. Dozens of documents can be processed in the time it would take a human to read just one.

- **Highly adaptable**
  Unlike document processing systems that require templates or spatial clues, **Dolffia** can extract information from a wide range of structured, unstructured and semi-structured documents with more than 40 use cases identified so far.

- **Superior accuracy**
  Dolffia classifies documents with an accuracy of 95% and correctly extracts the desired information 85% of the time, so human intervention is limited to handling exceptions.

- **Attractive ROI**
  Dolffia significantly reduces the number of FTE employees needed for low-value information classification and extraction tasks, so optimizing payroll costs

- **Ensures compliance**
  Dolffia largely eliminates the risk of documents getting mislaid or processed incorrectly because they are accepted without a signature, for example. This is particularly important in regulated industries.

- **Quick Time to Value**
  As a cloud-native application, **Dolffia** offers rapid set-up time and reduces indirect IT overheads to almost zero when installed in the public cloud. It can also be run on on-premises infrastructure.

- **Transparent pricing**
  The pricing model for Dolffia adapts to a client's needs with a variable cost element determined by the number of pages, document complexity, required response time, etc.

Main features

- **Document Classification**

  Using machine learning (ML), **Dolffia** can automatically recognize and classify a given document as a driving license or insurance claim, for example. The classification can be done using the text, machine vision or a combination of both methods. Parallelization techniques are used to reduce the time required to train the ML algorithms on a document collection.

- **Information Extraction**

  Dolffia then extracts the relevant information by first tokenizing and segmenting the document based on layout identification, table of contents, and table identification. It then applies natural language processing to correctly identify the text.

- **Natural Language Understanding**

  For more advanced use cases, **Dolffia** uses various cognitive techniques to improve the understanding of the documents and extract the knowledge of the content to validate the business rules or find the answer to a question posed about the document. These NLU capabilities include:

  - **Knowledge Graphs**
  - **Language Models**
  - **Semantic OCR**

  Dolffia extracts information from structured documents (including tables) and can disambiguate the concepts extracted by reference to or standardizing against the customer product database or any other applicable dictionary. This enables it to automatically correct OCR errors.

  Examples of tasks that can be performed by the AI system

  - Summarization of the document.
  - Answer a question about the content of the document.
  - Generate questions about the content of the document.
  - Identify entities (people, locations, organizations, …) in the content of the document.

Typical uses cases of Dolffia

Thanks to its cloud-native elastic architecture, **Dolffia** can be deployed on any public cloud platform or on-premises environments (Kubernetes based).

- ID cards and passports
- Medical certificates
- Insurance policies
- Invoices and utility bills
- Vehicle inspection certificates
- Tickets and receipts
- Copies of inheritance deeds
- Contract and budget classification
- Contract management
- Patent classification
- Email classification

Why choose everis NTT DATA?

Dolffia is offered by everis Syntphony, the platform for orchestrating product innovation and commercialization within everis. Syntphony leverages the talent and knowledge of everis professionals and our experience in delivering integrated, end-to-end solutions that maximize the synergies of the products and technologies.

The key cognitive capabilities of **Dolffia** were designed and developed at the everis Center of Excellence for AI, where a team of data scientists and engineers work closely with other AI professionals in the NTT DATA group.

The everis Difference

We invest in technology to get results but we believe in people to realize dreams. everis is inspired by talent and we firmly believe in the ongoing development of this most valuable asset, our people.

everis is part of NTT DATA, which is ranked as one of the two fastest growing and the eighth most valuable brand among the world's leading IT service providers according to Brand Finance.

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everis syntphony

everis Syntphony is everis' product strategy.

Our goal is to orchestrate the synergies and transform them into a harmonious solution for our clients and partners. The talent and global business knowledge of the everis team and its experience in the integration of end-to-end solutions,come together in the Syntphony platform. Along with third-party solutions and alliances, we create innovative products that reach their full potential when combined. The perfect music for each listener.

Benefits

Experts in technology and industry knowledge

Our knowledge and experience have been focused on creating innovative products which foresee future needs, under the baton of the best conductors.

Better time to market

The readiness of our products along with everis' platform-driven integration and orchestration, allow optimal implementation rhythm.

Global reach

At Syntphony, we seek to achieve the same global vision that everis, as an NTT DATA group company, applies to the rest of its services. We can adapt to many different keys.

Synergies and maximum cost efficiency

The centralized management of products inside Synthphony creates synergies and allow us to combine them optimally like notes in a chord, so maximising performance and minimizing costs for our clients.

Excellence

We aim to excel in all aspects of product practice, from ideation and construction, to all the fields of commercialization: security, resilience, scalability, regulations, certificates, roadmaps… We seek harmony within the ecosystem.

everis: integrator and service provider

everis' expertise in technological consulting simplifies the integration of its own products, as well as offering complimentary support service for levels 1 and 2, to make our song richer and better.

Ecosystem

The Syntphony platform products have the ability to integrate and create synergies with each other, providing efficient solutions, in tune with business needs.

banking Cross solutions retail
Dolffia
health legal & compliance
insurance
Third part & alliances
Ressellers & integrators

www.syntphony.com