



Robotic Text Automation

The Future of Work

These days no one questions automation as inevitable for businesses that want to be successful and effective. However, RPA and other popular automation solutions that deal well with structured data fall short when it comes to unstructured data, such as text. Yet up to 50% of all business processes require the scrutiny and comprehension of emails, corporate filings, news stories, web content, and other types of unstructured text. And the amount of such unstructured data is growing exponentially as customers continue to demand more transparency from the businesses serving them.

Applica DeepText extracts meaning from plain text with human-like accuracy and transforms it into actionable data software robots can use to automate text-intense processes. Applica augments human intelligence and increases the returns on human work capabilities. This human-machine tandem proves to be far more effective and accurate than attempts to fully replace the human workforce with AI. Our hybrid solution deploys human intelligence where it is crucial, irreplaceable, and most effective: to handling exceptions and performing quality control, while optimally tuned machines perform the mundane, repetitive work that is most at risk for human error.



Intelligence Augmented

Applica extracts information in a highly contextualized way, giving meaning in context to every harvested datapoint and enabling decision making and further document processing using RPA. Applica also has the capacity to extract information not explicitly present in text but resulting from the interpretation of the entire document or its sections.

These characteristics make Applica suitable for automation of complex text-intense work previously reserved solely for the human workforce. The deployment of our solution results in up to 90% reduction of the human workforce effort, up to 85% elimination of human error, and a document turnover time of less than one second.

In order to maintain uniformity in the interpretation of this NCND Agreement the parties have expressly agreed that this NCND Agreement, the parties' performance hereunder and the relationship between them shall be governed by, construed and enforced in accordance with the laws of the **Commonwealth of Massachusetts**, without regard to the principles thereof regarding conflicts of laws.



one analyst



virtually no errors



few seconds

AI Democratized

Implementation of AI methods typically requires specialized AI engineering knowledge that is extremely scarce and expensive. Thanks to its unique characteristics, Applica DeepText can be applied to any scenario by domain experts unassisted by AI engineers. This makes Applica the right choice for automating fragmented, small-scale processes. In the past, automation of such processes using AI methods was simply too laborious and expensive.



A New Breed of AI



Truly smart

Applica Deep Text has the unique capacity to learn from a small data set of examples, even as few as several. Applica DeepText also learns from interactions with end users. Thus, even teams without prior AI experience are able to rapidly deploy and support the Applica solution without having to engage scarce and expensive AI-engineering resources.



Multilingual

Applica DeepText is language-agnostic and can be easily applied to languages as different as English, Arabic, Japanese, or any of the highly inflected Slavic languages.



Sophisticated

Applica was conceived by a world-class team of 40 R&D scientists, over half holding PhDs in mathematics, computer science, or computational linguistics.



Self-contained

AI solutions typically require large volumes of information, often confidential, to be shared with third parties for training and maintenance. Applica is pre-trained on public data and thus is suitable for automation of processes across domains, without the need for access to large volumes of confidential customer data.



Superhumanly precise

When paired with human oversight, the Applica solution yields 85% fewer errors than a purely human workforce.



Versatile

Applica DeepText can be applied across different domains and industries with a minimal customization effort.

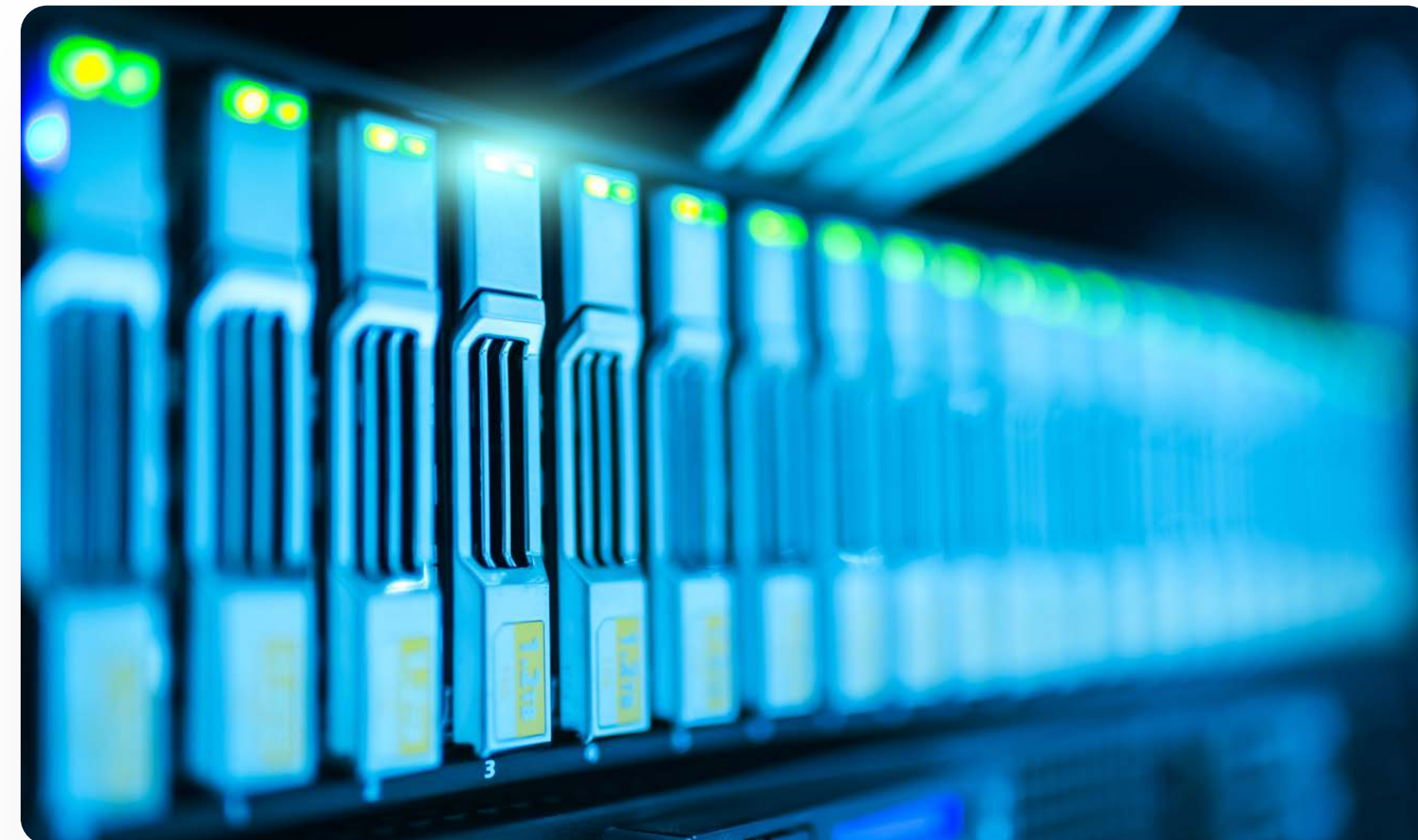
The Fort Knox of AI

Applica is deployed using highly secure Microsoft Azure cloud platform. All data is protected using strong encryption and transfers are routed through a point-to-point VPN channel. When hybrid clouds are used, confidential data is never stored outside of the customer's secure environment.



Engineering Excellence

Applica's architecture is based on containers, which enables extremely fast deployment in both private clouds and such leading public clouds as AWS or Microsoft Azzure.



Proven

Applica is currently being used by companies in the legal, financial, insurance, and media domains to process millions of documents and other text sources per month. Applica DeepText has proven to be effective in extracting information from and automating the processing of scanned and OCR'd documents, emails, web content, readable PDFs, and voice transcripts.



“Thanks to human-level precision the APPLICA.AI processes more than 90% of the complex documents fully automatically.”

Head of Business Intelligence,
Second-largest European debt collection agency



“Applica is the most advanced NLP engine I’ve ever seen.”

Chief Data Scientist,
Bulge Bracket Global Investment Bank



“It’s amazing, you can train your solution using a couple of examples, our engine needs thousands for the same task.”

R&D Manager,
Top-tier US financial media company

Unified Engine

Applica DeepText offers a single intuitive engine that solves multiple business problems:

1.

Contextual extraction of information – the Applica solution extracts any information from documents keeping track of context. For example, every name, amount, or address extracted from a document has an attributed role (eg. that of selling party, contractual penalty, or property address).

2.

Hierarchical, multilabel classification – documents or text fragments can be classified into any number of categories, depending on task utility.

3.

Semantic similarity – Applica DeepText identifies fragments of text that have meanings similar to user-defined examples. The solution uses true semantics, not simple keyword matching. It also makes sense of different modalities, including tense and negation.

The screenshot displays the Applica DeepText interface. At the top, there is a search bar with the placeholder text "Type in to search or add a filter...". To the right of the search bar are icons for a menu, search, settings, notifications, and a user profile labeled "Michael". Below the search bar, the main content area is divided into two sections. On the left, a sidebar shows a folder icon and a list of documents. The main list shows "2 512 documents" and is sorted by "from the highest score". The first document in the list is "d450961dex99e2 Mutual Confidentiality Agreement.pdf", dated "02-08-2018 / PDF / 6 pages". Below it are two more documents: "dex99e3 Amendment No.1 to the Mutual Nondisclosure" and "d429384dex999 Confidentiality Agreement.pdf". On the right, the "Document preview" section shows "1 of 16 pages". The preview content includes a paragraph about DVD replication and a numbered list of steps: "1. Prepare your DVD master." and "2. Create your artwork". The text in the preview is highlighted in blue and yellow.

Agile Engagement

Applica delivers an agile engagement model, which adds functionality incrementally in rapid iterations.

1.

The customer provides a minimal set of examples.

2.

Applica is rapidly trained using the examples.

3.

Results are validated by domain experts.

4.

The Applica-based automation is commercially launched and ready for subsequent iterations.

Secure Microsoft Azure Deployment



Microservice architecture



Automated deployment, scaling, and management of customer solutions



Instantaneous set-up of new instances with flexible autoscaling



Enterprise-grade business continuity and rigorous back-to-back SLA



The highest level of security and full compliance with local regulations related to PII

Robotic Text Automation Workflow





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