No code AUTOMATION BUILDER TO UNLOCK GROWTH

OMNITIVE STUDIO BROCHURE

UNLOCK BETTER
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The monumental challenge

EVERYDAY COMPLEX DOCUMENTS TRAP VALUABLE DATA

Competitive businesses in our modern information age rely on massive volumes of data to drive critical business operations, derive insights, pinpoint opportunities and more. Yet, a large bulk of data points is found in complex documents—both physical and digital—and guised as unstructured information that takes a human intellect to accurately decipher.

BUSINESSES ARE FRUSTRATINGLY LOCKED DOWN BY PROCESSING UNSTRUCTURED INFORMATION

 Businesses process a high volume of documents that are varied and unstructured, including everything from invoices and contracts to emails and non-textual files. More than 80% of the data generated today is unstructured and will further grow at the rate of 55% and 65% per year. Adding to the challenge, more than 50% of the document processing in 75% of organizations are paper-based, says a study by Bitkom\(^2\), making it even more difficult to apply digital strategies.

THE ECONOMIC COST OF MANUAL DOCUMENT EXTRACTION IS ENORMOUS

Reliance on human intellect and effort to manually process documents costs valuable time and money, and cannot be scaled. A 2012 IDC global survey of 1200 information workers and IT professionals on workforce productivity\(^3\) reports the significant amount of time wasted per week dealing with document processing challenges. For a Spanish bank, their manual processing of legal documents amounted to $14 million a year on hiring a specialized team of legal experts.

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\(^1\) https://www.datamation.com/big-data/structured-vs-unstructured-data.html
\(^2\) https://www.bitkom.org/Presse/Presseinformation/Unternehmen-reduzieren-ihren-Papierverbrauch.html
\(^3\) https://denalilabs.com/static/ProductivityWhitepaper.pdf
TODAY’S AUTOMATION IS NOT GOOD ENOUGH

Many have made the shift to streamline unproductive document processing workflows with business process management automation, leveraging tools such as Robotic Process Automation (RPA), Machine Learning and AI. Yet, the challenges do not stop there.

VARIABILITY OF DOCUMENTS IS TOO COMPLEX FOR AI MODELS

Algorithms fail to deliver the required accuracy, performance, determinism and explainability, when dealing with unstructured and semi-structured information that come in various forms and formats.

AUTOMATION IS LENGTHY AND COSTLY TO INTEGRATE

Back and forth integrations, testing, refinements and deployments with AI experts extend over years. It translates to millions of dollars, withholding the value creation for all stakeholders.

HEAVY RELIANCE ON HUMANS IS UNSUSTAINABLE AT SCALE

Current solutions require tons of data, massive labelling and maintenance effort to build or train models.

GOVERNANCE CONCERNS

Data privacy further complicates building and reusing models as the sensitive data cannot leave customer premises.

NOT ALL AUTOMATION CAN OVERCOME BUSINESSES’ BIG HURDLES

Even though AI adoption has become mainstream, organizations still remain stuck with inferior automation solutions and continue to face these huge hurdles:

- Too complex for AI models
- Automation is lengthy and costly
- Heavy reliance on humans
- Data privacy and governance concerns
- Slow and poor customer service
- Stunted business volume
- Limited revenue potential
- Ceilings in scalability and enterprise competitiveness
What is Omnitive Studio?

**A NO CODE TOOL FOR ANY USER TO BUILD DOCUMENT EXTRACTION AI MODELS**

Omnitive Studio is a tool that allows any non-technical user to create AI models that can extract information from volumes of documents accurately. Omnitive Studio unlock the limits of AI for boundless potential to grow businesses into market-leading competitors.

**FOR ANY ORGANIZATION TO UNLOCK GROWTH**

With an accessible and simplified visual interface, business users can easily and quickly build models that specifically meet their business needs. No IT knowledge or back and forth iterations with AI professionals are needed in our no code environment. Omnitive Studio can be deployed as a standalone tool or with Omnitive Extract, our award winning document extraction software.

How does Omnitive Studio work?

Omnitive Studio is a web-based application to view, build, use and share all your Omnitive Studio baseline models. Conveniently access this page using any web browser, but with unique login credentials to manage sensitive information access within your organisation.

**1. START A PROJECT WITH JUST 10-20 SAMPLES**

Omnitive Studio uses document samples to both train and test each baseline model. Upload just 10-20 samples to kick start the process. Together, these documents make up a corpus.

**CREATE PROJECT AND DATA POINTS**

Set up a project to process a document type for a clear business application, such as invoices for remuneration, flight documentation for Visa applications. From there, define the data points to extract from the documents. A data point represents a single data value, such as a flight booking number, and is found in each document within your project.

**UPLOAD DOCUMENTS**

Omnitive Studio uses document samples to both train and test each baseline model. Upload just 10-20 samples to kick start the process. Together, these documents make up a corpus.
2. TRAIN YOUR MODEL WITHOUT CODE

Teach Omnitive Studio how to identify specific data points in the document, for it to generate a baseline model that can extract the trained data points accurately. This begins with annotation, where a user easily highlights the value of a data point in each document, such as a flight booking number, with a few clicks.

Finish creating your baseline model by triggering the training process. Simply click ‘Train’ and Omnitive Studio automatically generates a model and its accuracy performance.

HIGHLIGHT DATA POINTS IN EACH DOCUMENT

Teach Omnitive Studio how to identify specific data points in the document, for it to generate a baseline model that can extract the trained data points accurately. This begins with annotation, where a user easily highlights the value of a data point in each document, such as a flight booking number, with a few clicks.

TRAIN YOUR MODEL WITH A CLICK

Finish creating your baseline model by triggering the training process. Simply click ‘Train’ and Omnitive Studio automatically generates a model and its accuracy performance.

3. TEST AND VALIDATE FOR MAXIMUM ACCURACY GUARANTEE

With a new corpus of document samples, quickly test your trained baseline model to assess its accuracy score when extracting new data sets. Run the test, then easily validate if each data point is extracted correctly.

SUPERVISE MODEL PERFORMANCE

Where necessary, further annotations help Omnitive Studio automatically learn from incorrect extractions in subsequent re-tests, to guarantee maximum accuracy with minimal human intervention.

PROVIDE FEEDBACK FOR IMPROVEMENTS

Validation panel to supervise model accuracy in extracting data points from new documents.

4. PUT YOUR COMPLETED MODEL TO WORK

Finally, publish your model for deployment with its Omnitive engine, Omnitive Extract. Apply your model in real business processes to effortlessly extract the most difficult-to-automate data, and even integrate the model with other applications.

Provide feedback for improvements.
How is Omnitive Studio different?

STANDARD AUTOMATION STRATEGY VS. OMNITIVE STUDIO

Omnitive Studio transforms each step in building an AI-powered document extraction model. Taking the challenges faced in standard automation strategies where entire projects are outsourced to IT experts, Omnitive Studio incorporates ground-breaking tech that substantially reduces resources, time, cost and difficulty in designing high-performing models.
What are our value propositions?

Omnitive Studio with Extract brings to the table three main business-focused value propositions of speed and ease, security, scalability, each embedding an intelligent mix of features that unlock growth for organizations.

VALUE PROPOSITION 1: UNPRECEDENTED SPEED AND EASE

EASY TO USE, NO CODE DIY TOOL

Omnitive Studio is designed for the masses to build and test baseline models. No programming knowledge and little human supervision is required to develop applications in minutes. With a powerful graphical user interface and simple step-by-step guides, Omnitive Studio puts high performance AI into the hands of every business user.

LOW SAMPLE, LOW HUMAN EFFORT

Data-annotation is the most labor-intensive process in model training. Where traditional solutions require thousands of labelled samples to train models, Omnitive Studio simply needs 10-20 to build production-ready baselines.

MINIMAL SUPERVISION WITH NO OVERFITTING

The system instantly feedbacks when to stop annotation based on observed accuracy and domain complexity, making it easy for the user to build models with >85% extraction accuracies across varied data sets.

WHAT IS IT’S IMPACT ON ORGANIZATIONS?

LESS DOWN TIME, HIGHER PRODUCTIVITY

Domain experts understand their document processing workflows the best and minimal time should be wasted on lengthy back-and-forth between business teams and external IT development teams. Omnitive Studio empowers line-of-business teams with the right but simplified tools to build, train and deploy a perfectly customized extraction model on Omnitive Extract. Few training data required, low data labelling effort and promises of no overfitting further disentangle any employee from tech-related hassle, to build an effective model in as little as 5 to 10 minutes.

These highly intelligent models can effectively process volumes of high value documents up to 90% faster than traditional processes. Its fast and sustained self-learning abilities minimise human intervention even after deployment. The result is hours and valuable manpower unlocked to realize new breakthrough strategies within organizations.

WHAT IS DATA ANNOTATION?

Data-annotation is when humans manually label the images and text within sample documents as machine-readable fields. e.g. 10/12/2020 → date

WHAT IS OVERFITTING?

Overfitting occurs when a model becomes ‘overtrained’ and learns the patterns in training data too well, hence losing its applicability to new data sets.
VALUE PROPOSITION 2: SECURITY FOR A PEACE OF MIND

WHITE BOX APPROACH
Users have full control over the training and testing of baseline models. With transparent performance audits, they are able to know which documents and data points are used to train the models, and can fine tune these data points to improve the accuracy of the models. Because no data travels with the baselines, they can be openly shared, modified and reused, to deliver replicable outcomes without posing security or privacy risks.

AUDITABLE
Clear logs and audit trails guarantee zero discrepancies among collaborators. Full control of each step-by-step process makes internal reviews seamless.

STRONG DATA PRIVACY
Data outputs never leave customer premises or cloud environment, thereby compliant with the most data privacy regulations. Even when models are shared, such as in Microsoft Azure Marketplace, no proprietary data travel with them.

VALUE PROPOSITION 3: DEPLOYABLE AT A MASSIVE SCALE

DOCUMENT, DOMAIN AND INDUSTRY AGNOSTIC
Train models to read structured, semi-structured and even completely unstructured documents from any domain and any industry.

MULTILINGUAL
Omnitive Studio supports document extraction in various language—English, Spanish and Russian. New languages can be built into Omnitive Studio in just one week.

OMNI-CHANNEL DEPLOYABLE
Omnitive Studio supports various product integrations on premise or on cloud, and through API, SDK, Kodak Alaris Scanners or TAIGER’s mobile app.

HIGH OUT OF THE BOX PERFORMANCE
Production-ready baseline models featuring out of the box accuracy beyond 85-90% are available for testing.

NETWORK EFFECT
Baseline models built by anyone using Omnitive Studio can be published in Azure Marketplace so that others can find them and use them, with assurance that no sensitive data follows. Cumulative usership creates an immense network effect, and lowers the barrier of entry for businesses to easily incorporate AI into their workflows.

CONTINUAL SELF-LEARNING MODELS
Omnitive Extract autonomously and continually learns from highly varied, real-life data even after deployment to ensure it always features the highest accuracy KPI.

WHAT IS IT’S IMPACT ON ORGANIZATIONS?

INTEGRATES SEAMLESSLY WITH 3RD PARTY SYSTEMS AND SECURITY PROTOCOLS
Competitive businesses already have sizeable investments on tech ecosystems—CRM systems, RPA workflows, cloud access with strict data compliance protocol etc.—which are sensitive to further overhauls and adjustments to make way for incompatible monolithic AI systems. Omnitive Studio with Extract is task-specific and optimized for integration and interoperability. Modularized cognitive components of Omnitive Studio can be easily adapted into existing tech infrastructure and data lakes in accordance to the unique requirements of each organization.

Seamless integration and easily adaptable

Comparison: conventional models
Conventional models only learn from training samples and stops updating themselves when applied in the external environment, hence reliant on routine maintenance to stay relevant.
WHAT IS IT’S IMPACT ON ORGANIZATIONS?

STREAMLINE MISSION-CRITICAL AND DOCUMENT-INTENSIVE WORKFLOWS WITH NO ACCURACY COMPROMISE

Accuracy is a defining factor in building any automation strategy, because no cognitive automation should continue to heavily rely on human power for fact-checking and maintenance—which is unsustainable at scale. TAIGER contractually guarantees read accuracy KPIs of 80% or more—even for massive volume of highly unstructured information in complex, free-text documents—and we have achieved 100% attainment for all projects undertaken.

Omnitive Studio with Extract blends a wide range of AI, NLP and OCR capabilities in a single tool to achieve results out of reach from many standard solutions in the market. Organizations reap the full benefit of our AI-enabled solutions without the worry of any diminished quality of output from their businesses.

SCORE EXPONENTIAL INCREASES IN REVENUE AND UNLOCK BREAKTHROUGHS IN ENTERPRISE COMPETITIVENESS

Finally, adding it all together: operational cost and time efficiencies as well as a financially tenable infrastructure deployment bring to light significant cost savings to be channelled into new business strategies; augmented workplace productivity from streamlined workflows spillover to create a frictionless customer experience that contributes to opportunities for revenue growth.

Organizations such as businesses in the Financial Services Industry can expect a 22% increase in conversion rates, a 40% reduction in validation errors, and a remarkable 330% overall return on investment, according to a McKinsey report on the IT spends of a UK auto insurer that uses cognitive technologies. Beyond all, these effects are multiplied with Omnitive Studio’s large window for scalability, for a vastly competitive edge in the market.

80% contractually guaranteed accuracies far surpassing industry standards

22% Increase in conversion rates

40% Reduction in validation errors

330% Overall return on investment

4 Terms and conditions apply

The team at TAIGER represent some of the most professional partners I have worked with. Otkritie had high expectations to be a customer-centric bank with a digitalisation vision. Yet, TAIGER was able to listen, understand and exceedingly deliver. I believe that this successful project with TAIGER simply marks the beginning of a long-term digital augmentation partnership with Otkritie.

VASILIY UVAROV
DEPUTY HEAD OF E-BUSINESS DEVELOPMENT FOR SME, BANK OTKRITIE FINANCIAL CORPORATION
What can Omnitive Studio read?

EXTENSIVE DOCUMENT REPERTOIRE FOR ALL BUSINESS NEEDS

Omnitive Studio is pre-trained with baseline models to read a repertoire of structured, semi-structured and unstructured documents across industries and countries. Today, Omnitive Extract is built with 50+ baselines to accurately process over 60 documents in three key business languages—English, Spanish and Russian.

In just a few years, the huge network effect from Omnitive Studio’s marketplace presence will usher in exponential expansions of baselines models. Come 2026, Omnitive Studio envisions a document repertoire of over 30,000 baseline models spanning 160 languages, to grant virtually any organization the ability to integrate Omnitive Studio into any and every business function.

PRE-TRAINED BASELINE MODELS

<table>
<thead>
<tr>
<th>DOCUMENT TYPE</th>
<th>INDUSTRY</th>
<th>ACCURACY</th>
<th>SAMPLE USE CASES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powers Of Attorney</td>
<td>Legal</td>
<td>97.66%</td>
<td>Customer Onboarding, Background Checks, precedent Case Search, Contract Negotiation, Business Registry Set-Up</td>
</tr>
<tr>
<td>Registration Letter</td>
<td></td>
<td>90%</td>
<td></td>
</tr>
<tr>
<td>ACRA</td>
<td></td>
<td>94.41%</td>
<td></td>
</tr>
<tr>
<td>Constitution</td>
<td></td>
<td>97.66%</td>
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</tr>
<tr>
<td>Payslip</td>
<td></td>
<td>93.78%</td>
<td></td>
</tr>
<tr>
<td>Invoice</td>
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<td>95.75%</td>
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</tr>
<tr>
<td>IRPF</td>
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<td>92.6%</td>
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<td>Receipt</td>
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<td>87.42%</td>
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<tr>
<td>DCA</td>
<td></td>
<td>77.5%</td>
<td></td>
</tr>
<tr>
<td>CSA</td>
<td></td>
<td>84.02%</td>
<td></td>
</tr>
<tr>
<td>ISDA</td>
<td></td>
<td>85.4%</td>
<td></td>
</tr>
<tr>
<td>Bankstatement Bancomer</td>
<td></td>
<td>98%</td>
<td></td>
</tr>
<tr>
<td>Bankstatement HSBC</td>
<td></td>
<td>98.43%</td>
<td>Post-Trade Reconciliation, Customer Onboarding, KYC Checks, Expense Claims Processing, Structured Trade Contract Negotiation, Cashflow Management</td>
</tr>
<tr>
<td>Bankstatement Inbursa</td>
<td></td>
<td>94.63%</td>
<td></td>
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<tr>
<td>Bankstatement Banorte</td>
<td></td>
<td>98.6%</td>
<td></td>
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<tr>
<td>Bankstatement Scotiabank</td>
<td></td>
<td>96.04%</td>
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<tr>
<td>Bankstatement Banregio</td>
<td></td>
<td>90%</td>
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<tr>
<td>Bankstatement Banamex</td>
<td></td>
<td>85.95%</td>
<td></td>
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<tr>
<td>Bankstatement Banbajo</td>
<td></td>
<td>95.63%</td>
<td></td>
</tr>
<tr>
<td>RIES014</td>
<td></td>
<td>97%</td>
<td></td>
</tr>
<tr>
<td>Application Form</td>
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<td>90.25%</td>
<td></td>
</tr>
<tr>
<td>Attendance sheet Extraction</td>
<td></td>
<td>86.18%</td>
<td>Student Records Management, Student Registration, Student Background Check, Scholarship &amp; Bursary Application, Expense Claims Processing</td>
</tr>
<tr>
<td>Certificate of Completion</td>
<td></td>
<td>86.48%</td>
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</tr>
<tr>
<td>Form1</td>
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<td>84.32%</td>
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<td>Student Registration Certificate</td>
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<tr>
<td>Skill future Credit Balance</td>
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<tr>
<td>Exam Results Slip</td>
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<td>87.57%</td>
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</tr>
</tbody>
</table>
### Document Type, Industry, Accuracy, Sample Use Cases

<table>
<thead>
<tr>
<th>DOCUMENT TYPE</th>
<th>INDUSTRY</th>
<th>ACCURACY</th>
<th>SAMPLE USE CASES</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNI</td>
<td></td>
<td>91.66%</td>
<td>Central Administrative Office Activity</td>
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<tr>
<td>Payslip</td>
<td></td>
<td>85.24%</td>
<td></td>
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<tr>
<td>Work Certificate</td>
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<td>90%</td>
<td></td>
</tr>
<tr>
<td>Passport</td>
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<td>97.34%</td>
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</tr>
<tr>
<td>NRIC</td>
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<td>93.41%</td>
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<tr>
<td>Final Certificate</td>
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<td>81.68%</td>
<td></td>
</tr>
<tr>
<td>INE</td>
<td></td>
<td>85%</td>
<td></td>
</tr>
<tr>
<td>IFE</td>
<td></td>
<td>90%</td>
<td></td>
</tr>
<tr>
<td>Phone bill</td>
<td></td>
<td>90%</td>
<td></td>
</tr>
<tr>
<td>CFE</td>
<td></td>
<td>90%</td>
<td></td>
</tr>
<tr>
<td>CURP</td>
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<td>96.4%</td>
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<tr>
<td>Infonavit</td>
<td></td>
<td>90%</td>
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</tr>
<tr>
<td>Confinavit</td>
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<td>97.44%</td>
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</tr>
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<td></td>
<td>98.5%</td>
<td></td>
</tr>
<tr>
<td>RFCAcausePF</td>
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<td>90%</td>
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</tr>
<tr>
<td>RFCAcausePM</td>
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<tr>
<td>RFCPF</td>
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<td>90%</td>
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<td>RFCRIF</td>
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<td>90%</td>
<td></td>
</tr>
<tr>
<td>Russian ID</td>
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<td>93.83%</td>
<td></td>
</tr>
<tr>
<td>Flight Booking</td>
<td></td>
<td>88%</td>
<td></td>
</tr>
<tr>
<td>Hotel Booking</td>
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<td>88%</td>
<td></td>
</tr>
<tr>
<td>Medical Invoices</td>
<td></td>
<td>84.17%</td>
<td>Health Care and Social Assistance</td>
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<tr>
<td>Medical Certificates</td>
<td></td>
<td>83.75%</td>
<td>Claims Processing, Medicine Inventory Management, Insurance Record Management, Patient Healthcare Database</td>
</tr>
</tbody>
</table>

Expense Claims Processing, Employee Records Management, Business Registry, Background Checks, Visa Processing, Travel Itinerary Planning.
Conclusion

Businesses today face compounding challenges, first from the inefficiencies of traditional document processing, and subsequently the multifaceted difficulties from inferior automation strategies that demand high human intervention and ultimately limit scalability. The market lacks a truly intelligent solution—but Omnitive Studio fills this gap.

WHY IS OMNITIVE STUDIO WITH EXTRACT AN INTELLIGENT SOLUTION?

Omnitive Studio is the missing link that helps businesses derive value from complex AI technology. The tool embeds as value propositions the essential business considerations of ease, security and scalability that must follow any automation strategy. Omnitive Studio makes available to any success-oriented business the intelligent yet simplified tools to steer themselves towards market-leading growth.
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