



AI-powered documents analysis

50%

Faster processing times

By combining GenAI, OCR, machine learning, and natural language processing, you can automatically extract, classify, and process information — whether it's coming from structured forms or unstructured documents.

52%

Fewer errors

Intelligent Document Processing (IDP) cuts error rates by over 52%. Automating document data capture isn't just faster — it eliminates the manual mistakes that slow you down.

Proven IDP use cases

Across industries like banking, logistics, healthcare, and legal, Intelligent Document Processing is reshaping how organizations operate. Here's how you can apply it to drive efficiency, reduce costs, and improve business outcomes:



Automated invoice processing

Scenario:

Companies process thousands of invoices from different vendors, often in various formats — PDFs, scanned images, and paper documents. Manual data extraction creates inefficiencies, increases the risk of errors, and slows down payment processing.

How it works:

OCR extracts key data — invoice numbers, due dates, line items, and amounts — straight from scanned invoices and PDFs.

LLMs validate and classify extracted data, cross-checking it against purchase orders and ERP records to ensure consistency

Automated workflows trigger approvals and payments based on predefined rules, cutting out manual steps and accelerating operations.

Benefits:

- ✓ Reduces manual data entry errors
- ✓ Accelerate invoice processing and approval cycles
- ✓ Strengthen vendor relationships with on-time payments
- ✓ Detect duplicates and fraud fast with AI-powered anomaly detection



Legal contract analysis & summary

Scenario:

Legal teams spend countless hours manually reviewing complex contracts, hunting for key clauses, obligations, and risks. These documents are usually in unstructured formats, making traditional review processes slow, inefficient, and prone to mistakes.

How it works:

OCR extracts text from scanned contracts, PDFs, and even handwritten agreements.

LLMs analyze and classify key sections — from termination clauses to confidentiality and liability terms.

Summarization algorithms distill documents into concise versions, highlighting critical legal points.

LLMs analyze the clauses against the industry standards and other documents.

Risk detection models flag problematic clauses that expose the business to disputes, compliance risks, or hidden liabilities.

Benefits:



Instantly distills key insights for teams without a legal background



Strengthens compliance by automatically detecting missing or non-standard clauses



Accelerates negotiations through rapid contract comparisons



Regulatory compliance & audit automation

Scenario:

Across industries, organizations face strict regulatory frameworks like GDPR, HIPAA, and SOX. Manual compliance reviews are slow, inefficient, and error-prone.

How it works:

OCR extracts critical information from regulatory documents, policies, and reports.

LLMs analyze content to ensure policies align with compliance requirements.

Automated alerts flag non-compliance risks in real time.

AI-driven audits identify gaps and generate detailed compliance reports.

Benefits:



Reduces manual effort in compliance reporting



Detects non-compliant clauses early, minimizing legal exposure



Enhances audit readiness with automated tracking



Improves governance and transparency across the organization



Loan document verification & fraud detection

Scenario:

Banks and financial institutions process thousands of loan applications, each requiring verification of documents like tax returns, payslips, and identity proofs. Manual verification is slow, error-prone, and exposes institutions to increased fraud risk.

How it works:

OCR extracts key details from documents — income details, employment history, and credit scores.

LLMs validate extracted information by cross-checking multiple documents to ensure consistency and integrity.

AI-powered fraud detection flags discrepancies, fake documents, or forged signatures.

Automated workflows approve or escalate applications based on predefined risk criteria.

Benefits:

- ✓ Reduces loan processing time from weeks to days
- ✓ Improves fraud detection with AI-based anomaly identification
- ✓ Enhances regulatory compliance by ensuring document integrity
- ✓ Provides a seamless experience for customers and loan officers



Medical records digitization & insights extraction

Scenario:

Healthcare providers are flooded with handwritten notes, scanned reports, and PDFs. Manually entering this information into Electronic Health Record (EHR) systems is time-consuming and introduces costly errors.

How it works:

OCR extracts patient information — diagnoses, treatment plans, prescriptions, and physician notes from medical records.

Multimodal LLMs review and correct OCR output, enhancing accuracy using original document scans.

Intelligent summarization generates concise, readable patient history reports.

AI-powered insights detect potential drug interactions, missed diagnoses, and inconsistencies in treatment plans.

Benefits:

- ✓ Improves the accuracy of medical records
- ✓ Saves doctors and nurses time on documentation
- ✓ Enhances patient safety by detecting anomalies
- ✓ Supports better interoperability across disparate healthcare systems



We are the first AWS Generative AI Services Partner in Poland and the entire CEE, acknowledging our expertise & experience with building and maintaining scalable GenAI solutions.

As an AWS Generative AI Services Partner, we help customers break through the barriers to AI adoption — we secure AWS funding for clients to accelerate PoC and MVP implementations.

Case studies

Our track record as a data & AI solutions partner speaks for itself:

CLARIANT

Enterprise, Switzerland

Industry: Specialty chemicals

more: chaosgears.com/case-studies/clariant

For Clariant, a global leader in specialty chemicals, with 10,000+ employees, we're building an AI-powered HR chatbot that streamlines hiring by reviewing resumes, tracking attendance, managing admin tasks, and more. We're also building a Sales Assistant that optimizes sales processes, driving efficiency and helping close more deals faster.



SMB, Poland

Industry: Healthcare

more: chaosgears.com/case-studies/provocare

We built AI assistant that supports therapists by providing a reliable knowledge base, drastically reducing the time needed to find relevant information, which is particularly important during therapy sessions.

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Explore the potential of the cloud

We help businesses harness the full power of the cloud. As cloud navigators with a security-first mindset, we provide cutting-edge technologies to top-tier clients. Companies across telecommunications, pharmaceuticals, finance, healthcare, entertainment and dynamically developing start-ups place their trust in us.

Our services:

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We evaluate the potential business value of your cloud migration and help you take the best course. Avoid surprises and pitfalls with expert navigators.

Cybersecurity

We secure cloud, on-prem and hybrid environments with effective security solutions for your IT systems, applications and data.

Data & AI

We deliver bespoke data and AI services, creating AI and ML solutions from strategy to production. Let's build real-world AI apps together.

Site Reliability Engineering (SRE)

We ensure system reliability through proactive monitoring, effective incident management, and strict adherence to SLA commitments, optimizing your performance and uptime.

Book your consultation



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AWS Machine Learning Hero, AWS solutions architect and certified specialist in AI, MLOps and Amazon SageMaker.

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