Intelligent document processing with Mission Cloud and AWS

Harness generative AI to surmount manual workflow challenges.

Intelligent document processing (IDP) turns a mountain of error-prone manual work into…done. Using this natural language processing tool, businesses can quickly identify key details or patterns across many documents, extract that data, and use it to support fast and accurate analysis or new content creation. Need to search for specific details within contracts? Or instantly summarize the latest motions in a lawsuit—with all personally identifying information redacted? IDP can help your team complete the work significantly faster. And working with Mission Cloud and Amazon Web Services (AWS), you can incorporate generative artificial intelligence (AI) to go even farther with IDP.

The power of IDP

Successfully implementing IDP at scale can help organizations not only improve how they're using generative AI—but take it further.

- **Data augmentation:** Additional documents created in IDP workflows can augment training data, expanding the dataset for improved model performance.

- **Fraud detection:** Generative AI can also produce sample data and documents for training models, creating scenarios, and patterns of fraudulent activity.

- **Text summarization:** Combining generative AI with IDP, it is possible to generate concise summaries or abstracts of lengthy documents, enabling quick comprehension and analysis of document content.

Complete document summarization is particularly valuable for industries dealing with substantial paperwork, such as the financial, insurance, medical, and legal sectors.

For example, one of Mission Cloud's customers is a legal processor that helps law firms analyze vast collections of discovery files for class-action lawsuits and personal-injury cases. The customer previously outsourced document summary. The automated, natural language processing (NLP) solution from Mission Cloud made it possible to generate accurate, concise summaries that significantly reduced manual effort and saved approximately $500 per case.

How it works

After moving your document data to AWS via an extract, transform, and load (ETL) pipeline, Mission Cloud builds a custom solution to manipulate the data, either adding structure or modifying where helpful, before processing and generating your output.

Then Mission Cloud works with you to fine-tune what the model produces according to your needs for data throughput, stakeholder visibility, and ongoing storage and access.

Finally, Mission Cloud develops a best-fit architecture and designs everything from model stores, experimentation, endpoint deployment, pipelines, and the data infrastructure—and documents everything so that your team is empowered to maintain the systems into the future.

Benefits and outcomes

- Minimize manual work to save time and money
- Summarize documents quickly and accurately
- Gain deeper insights into data
- Serve your customers faster
- Get support for security, compliance, and data privacy

Schedule a free 60-minute consultation with Mission Cloud

Learn more

IDP at a glance

Data capture

Aggregating and organizing documents from different business workflow(s) within your organization

Classification

If more than one document type, then classify each document and send to the appropriate document pipeline

Extraction

Extract key business information

Enrichment

Getting insights and business value from your data

Review and validation

Run business rules on your data, or include human in the loop validation if needed

Consumption

Send information to downstream apps or databases

Generative AI on AWS

Start generating innovation with these performant, cost-effective, and easy-to-use tools purpose-built for generative AI.

Amazon Bedrock
The easiest way to build and scale generative AI applications with foundation models.

Amazon SageMaker JumpStart
Deploy prebuilt machine learning solutions in just a few clicks.

Learn More

ABOUT THE AWS PARTNER

Mission Cloud is a born-in-the-cloud managed services, consulting provider, and AWS Premier Tier Services Partner, empowering businesses to build a successful future in the cloud with the broadest capabilities, software, and services.

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