

[Event dashboard](#) > [Use cases](#) > [Document extraction and summarization](#) > Intelligent document processing with Generative AI

Intelligent document processing with Generative AI

Introduction

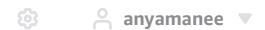
Generative AI (GenAI) in concert with other Intelligent Document Processing (IDP) AI Services expands the set of document processing problems that can be solved while reducing the implementation time. The ideal IDP system takes any document as its input and with a few or no example prompts can get insights to automate business process for faster decision making.

Adding GenAI to your document processing pipeline brings this ideal system one step closer by providing enhanced capabilities such as zero-shot document classification and summarization, expanding the scope of Q&A, finding and correcting mistakes, and reducing the effort required to send data to downstream systems.

We have walked through how IDP pipeline works in AWS with this [blog](#). The IDP pipeline has now evolved with the addition of Foundation Models (FM) to each stage of IDP such as classification, extraction, and enrichment.

- In the document classification stage we can add GenAI to have zero-shot classification of documents when there is no training data or very few samples available. Or with open ended domains where classes aren't well defined yet such as identifying themes in product reviews, etc
- In the document extraction stage, they can not only extract the content with AWS AI services such as Amazon Textract, but also normalize the extracted fields and logical reasoning using GenAI. e.g. they can normalize date fields, or check for correctness of an address or a phone number.
- In the document enrichment stage, we can leverage the generative nature of GenAI and perform downstream operations such as inferring and logical reasoning, generating email/text, summarizations, questions and answering, translation, and more.

Now let's put these IDP pipeline stages together. The diagram below shows how GenAI options with Amazon Bedrock is added to each of the aforementioned stages



Serverless x GenAI BKK Workshop



Generative AI at scale: Serverless workflows for enterprise-ready apps

[Pre-requisite] Enable foundation model access in Amazon Bedrock

[Pre-requisite] Configuring the front-end application

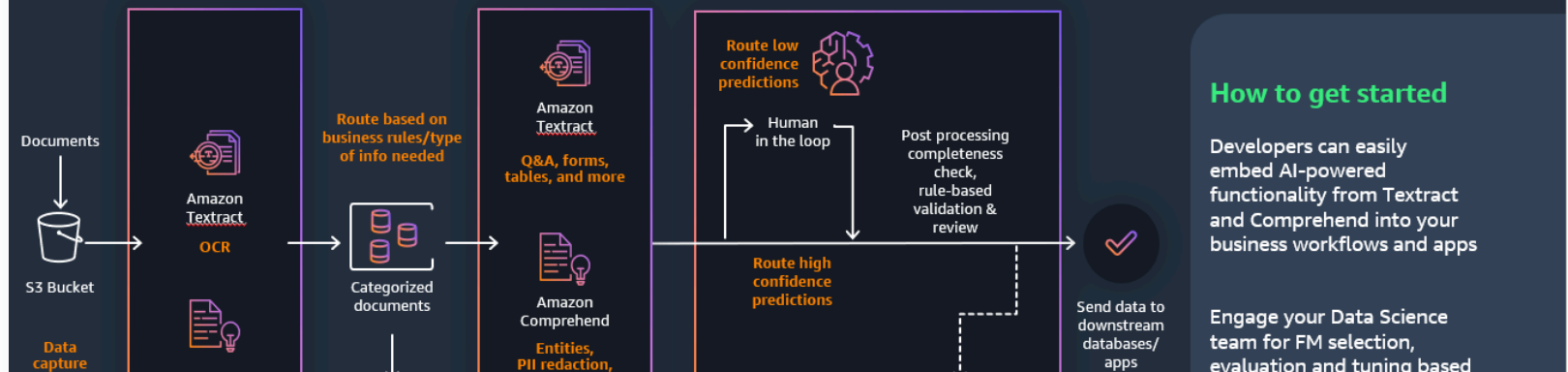
► Playground

▼ Use cases

► Building a RAG pipeline

- ▼ Document extraction and summarization
 - ▼ **Intelligent document processing with Generative AI**
 - Generative AI Setup
 - Module 1 - GenAI Introduction for IDP
 - Module 2 - Document Classification and Summarization
 - Module 3 - Data Extraction
 - Scaling with serverless workflows
- Workshop Cleanup

Sample document pipeline using AWS IDP and FM



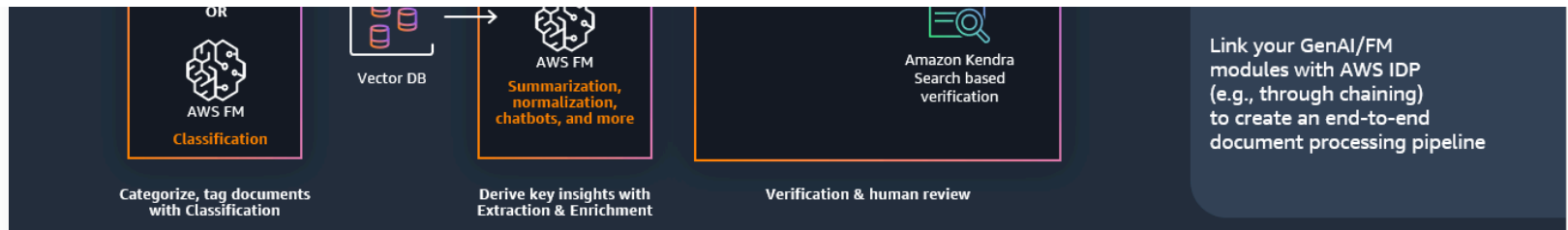
© 2008 - 2025, Amazon Web Services, Inc. or its affiliates. All rights reserved. [Privacy policy](#) [Terms of use](#) [Cookie preferences](#)

▼ AWS account access

[Open AWS console \(us-west-2\)](#)

[Get AWS CLI credentials](#)

Exit event



[Previous](#)

[Next](#)