



Powered by Amazon Bedrock



Unlock the power of GenAI for your business success

We build bespoke and secure GenAI platforms with best-in-class components seamlessly adapted to the unique needs of your organization

Security

With data security at its core, our solution safeguards confidential information via encryption, while a robust access-control layer restricts access to privileged data.

Privacy

Your company data remains under your control — private and shielded from unauthorized access.

AI in the context of your business

Conversational AI empowered by your own data truly comprehends your business. Such context-enriched models will become invaluable tools for your team in their daily tasks.



From ChatGPT to YourGPT

We guide you toward GenAI with clear, well-defined use cases, to ensure that generative AI delivers benefits for your business. Insights derived from financial, technical, legal or sales documents are worth their weight in gold. Explore the capabilities of GenAI swiftly and cost-effectively thanks to ready-made solutions grounded in our experience with enterprise projects.

Efficiency matters

Our dedicated chatbot streamlines and automates repetitive tasks, saving you time and resources. Unlike free chatbots, we provide absolute privacy and security of your data.

Usage examples

- identify, compare and synthesize relevant documents,
- extract general data and knowledge from text sources,
- classify documents and generate metadata, tags or descriptions,
- review agreements to detect non-compliance or abuse,
- automate customer service and complaints processing,
- hyper-personalize content,
- create executive summaries.

Real data, real benefits

We customize AI models with your business data to fit your unique use cases. Accurate data on top of our ready-to-use solutions means maximum GenAI benefits for you.

Formats and languages

Our AI models understand textual data in various formats, including **PDF, TXT, ODT** and documents, spreadsheets and presentations created using Microsoft Office and Google Workspace in more than **20 languages**, including **English, German, French, Italian, Spanish, Polish** and **Ukrainian**.

Your GenAI journey

Whether you already know how to profit from AI or aren't quite sure yet where to start, we can help you find your bearings via a webinar, consultations and tailored workshops. To address your immediate needs, we build a Proof of Concept on top of ready-to-use components and then refine the solution into a MVP which precisely aligns with your company's unique use case.

Stage 1
1-2 days

Webinar

Gain insights into the workings of GenAI with Amazon Bedrock.

REGISTER

Consultation

Discover the potential of AI with use cases tailored to your needs.

BOOK

Workshop

Translate your concepts into implementable GenAI solutions.

BOOK

Stage 2
1-2 weeks

Generative AI Landing Zone (PoC)

With our set of ready-to-use components, you'll witness GenAI in action on your data right away. This enables swift testing of the GenAI capabilities discussed in our workshops, laying the groundwork for further implementations.

First, we take a stab at the low-hanging fruit and improve as we go.

Stage 3
1-2 months

Minimum Viable Product (MVP)

From prototype to production-ready solution — we guarantee a seamless transition into a solution that precisely addresses your business's specific use case.

Let's make AI work for you. Book your consultation today.



Gen AI Real-World Use Cases

Understanding the practical applications of generative AI requires real-world examples. Discover how our customers use generative AI solutions to seize new opportunities, transform their businesses, and overcome challenges.

Client: Clariant

Clariant is a global specialty chemicals company based in Switzerland that produces care chemicals, catalysts, and adsorbents and additives.

Project: Building a generative AI platform on AWS

The Challenge

Clariant, a leader with over 1,500 chemical products across twenty industries, needed rapid knowledge exchange and quick data insights for their researchers and sales teams.

The Solution

We built a solid base using modular building blocks, allowing for seamless adaptation to various generative AI applications. To improve employee access to key information, we developed a GenAI chatbot that uses natural language processing. This chatbot, having access to organizational data, serves over 10,000 employees. Users are finding the tool particularly useful for writing emails, summarizing documents and creating meeting minutes.

The Outcome

In less than 3 months, we developed and deployed a generative AI platform for Clariant. Importantly, the platform is secure, accessible only within Clariant's network. Every API operates on a separate AWS account, ensuring full dataset isolation.

Tech stack

- Amazon Bedrock
- Amazon OpenSearch
- AWS Lambda
- AWS EC2
- AWS ALB
- Amazon DynamoDB
- Amazon AppFlow
- API Gateway
- AWS StepFunctions

More: www.chaosgears.com/case-studies/clariant-generative-ai-on-aws



Client: Therapeutic facility

A leader in mental health care, delivering support through a proactive approach and methodologies rooted in Provocative Therapy.

Project: Building an AI chatbot

The Challenge

The facility aimed to empower its therapists with AI during Provocative Therapy sessions, reducing patient wait times and enhancing therapeutic outcomes. However, general-purpose LLMs, such as Claude 3 or ChatGPT 4, are not trained enough in this area and confuse provocative therapy with other psychological methods. At the same time, there is not enough data to fine-tune LLMs for Provocative Therapy.

The Solution

To overcome these challenges and create a valuable tool for therapists, we proposed a Retrieval-Augmented Generation (RAG) approach. This involved building a chatbot assistant atop a set of curated data sources, ensuring accuracy and relevance.

With medical data security as our top priority, we chose Amazon Bedrock without hesitation. It safeguards confidential information through encryption and employs a robust access control layer to restrict access to privileged data. Company data remains under client control, shielded from unauthorized access.

The Outcome

The AI assistant developed by Chaos Gears supports therapists by providing a reliable knowledge base, drastically reducing the time needed to find relevant information, which is particularly important during therapy sessions. By automating tedious, repetitive tasks, therapists can dedicate more time to their patients.

Tech stack

- Amazon Bedrock
- Amazon OpenSearch
- Amazon Textract
- Amazon S3
- Amazon Cognito
- AWS Lambda
- Amazon SageMaker Inference



Client: The international fashion company

A global fashion company designing, producing, and distributing clothing across five brands, available in both physical stores and online in nearly 40 countries.

Project: Automatically processing and cropping fashion images

The Challenge

In the fashion industry, launching thousands of new products daily is routine. Online customers expect every detail of clothing items, like zippers, buttons, and fabric, to be displayed. The company's employees manually cropped photos, a repetitive and tedious task. Our goal was to automate this process using artificial intelligence.

The Outcome

Using machine learning and GenAI, we've fully automated the photo cropping and processing for our client, reducing the time from 15 minutes to just 5 seconds without human intervention. This acceleration enables the client to launch new products swiftly, meeting customer expectations in the dynamic world of fast fashion.

The Solution

We utilized pre-trained machine learning and GenAI algorithms for image processing. First, Claude 3 described and classified clothing, identifying relevant details. Then, Segment Anything and Grounding DINO located these objects, generating bounding boxes and new shots.

During the actual processing, a GenAI algorithm from Amazon Bedrock is used and the external system is notified along with a link to download the images once they are processed.

Tech stack

- Amazon Bedrock
- AWS Lambda
- Amazon API Gateway
- Amazon S3
- Amazon DynamoDB
- AWS Batch



Explore the potential of Generative AI

At Chaos Gears, 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.

“Exploring generative AI with Amazon Bedrock perfectly fits our grow-as-you-go, learn-by-doing approach to new technology. In just three months, we went from first discussions to a functioning internal gen AI chatbot with more than 1,000 active users, which is ca. 10% of our global workforce. Crowd-sourcing ideas through the chatbot has already helped us to identify **over 100 potential gen AI use-cases to further explore**. These include augmenting and accelerating our R&D processes, supporting sales teams with meeting preparation, and automating our rapid response to customer emails. Our users are excited about discovering the possibilities of AI, and the engagement is high and increasing.

Eric van den Berg, Group CIO, Clariant - the world's leading specialty chemical company

Source: <https://aws.amazon.com/bedrock/testimonials/>

Book your consultation



Tomasz Dudek, Data & AI Team Lead

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

Let's talk: genAI@chaosgears.com

