
AWS
re:Invent
NOV. 28 – DEC. 2, 2022 | LAS VEGAS, NV

XNT303

Building AI-enriched applications with .NET on AWS

Alexander Dragunov (he/him)
Senior Partner Solutions Architect
AWS

Prasad Rao (he/him)
Principal Partner Solutions Architect
AWS

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

“By 2025, global spending on artificial intelligence will reach $204 billion”

IDC, “Worldwide Spending on Artificial Intelligence”

https://bit.ly/3y7hDoP

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

“By the end of 2024, 75% of enterprises will shift from piloting to operationalizing AI”

Gartner, “Gartner Identifies Top 10 Data and Analytics Technology Trends”

https://gtnr.it/3Bln3uU

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

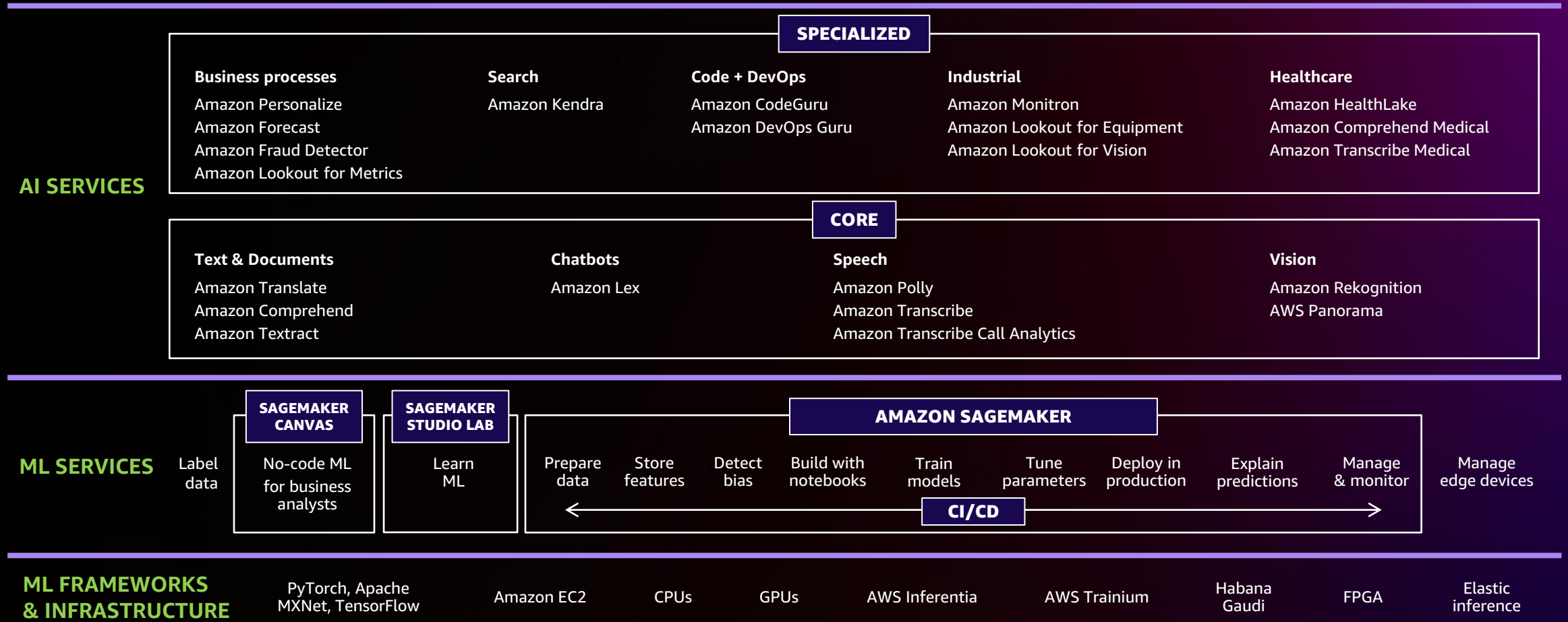
Our mission at AWS

Put machine learning in the hands of every developer

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

The AWS AI/ML stack

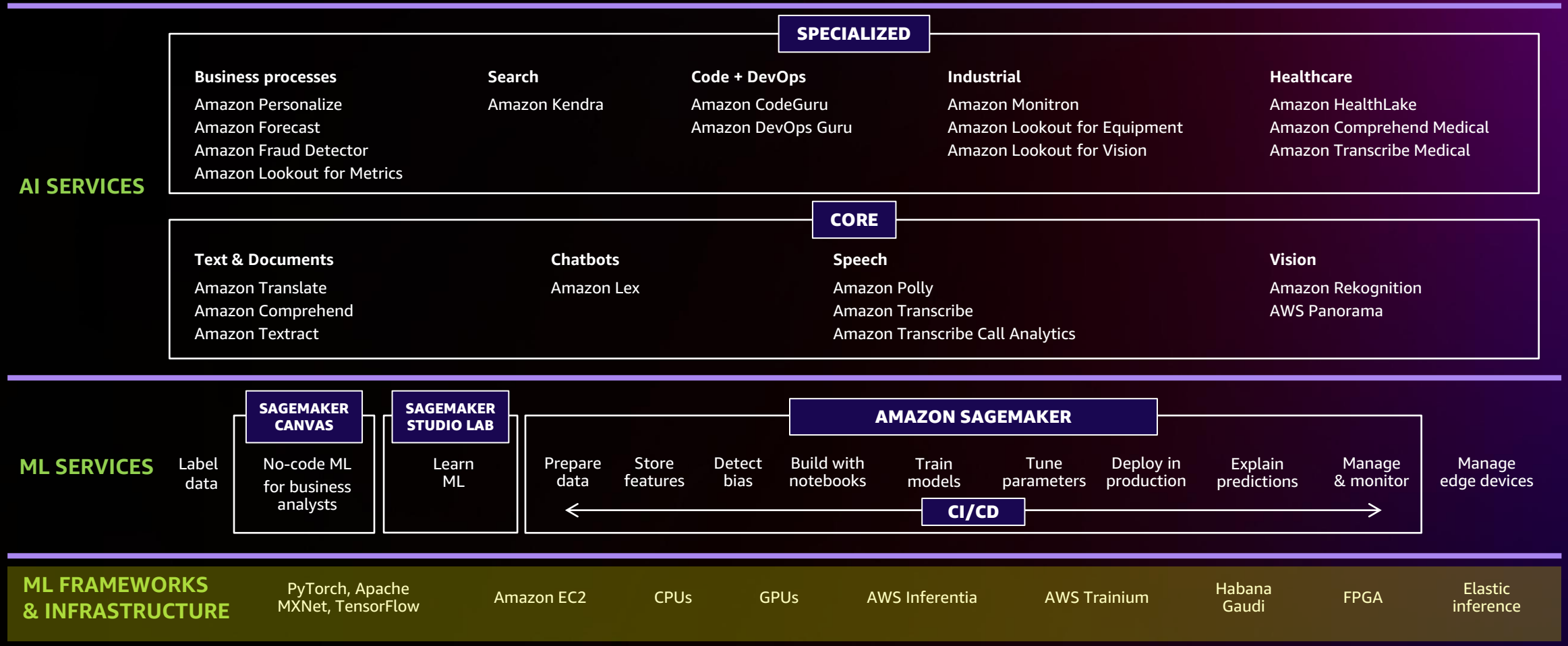
BROADEST AND MOST COMPLETE SET OF MACHINE LEARNING CAPABILITIES



© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

The AWS AI/ML stack

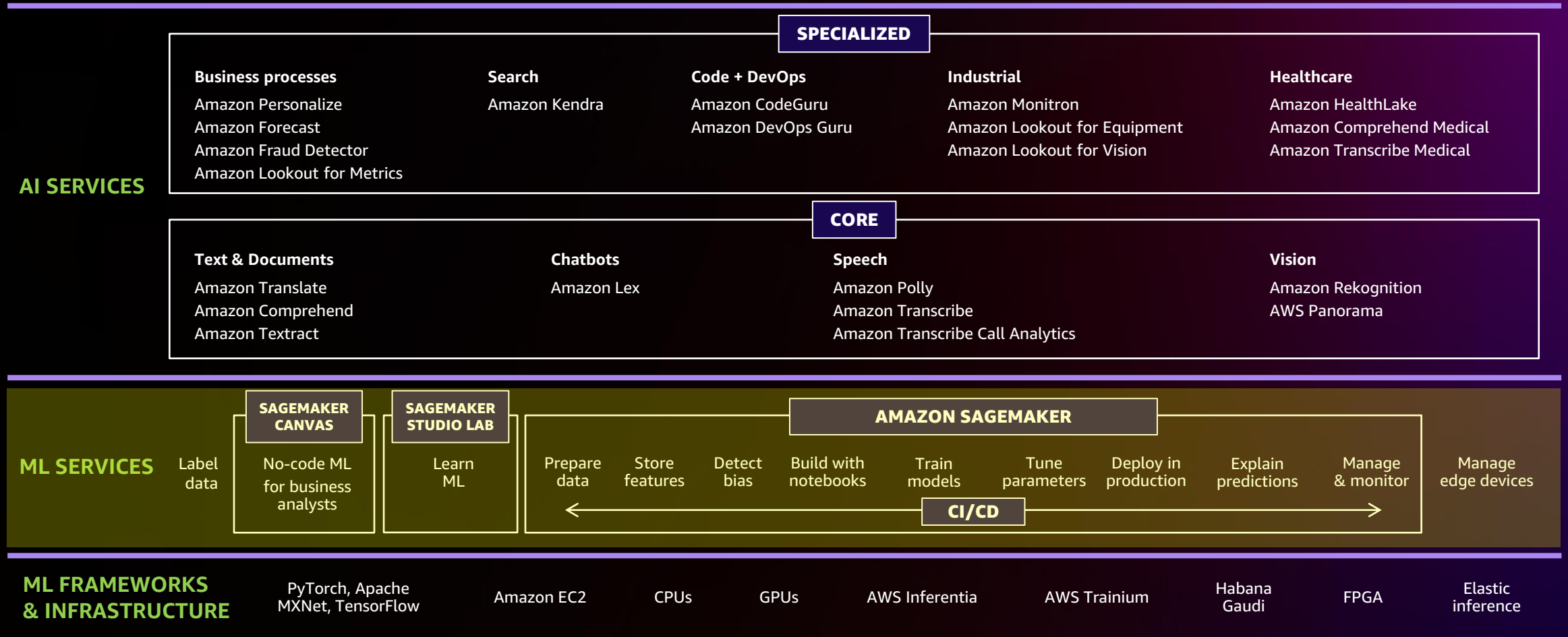
BROADEST AND MOST COMPLETE SET OF MACHINE LEARNING CAPABILITIES



© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

The AWS AI/ML stack

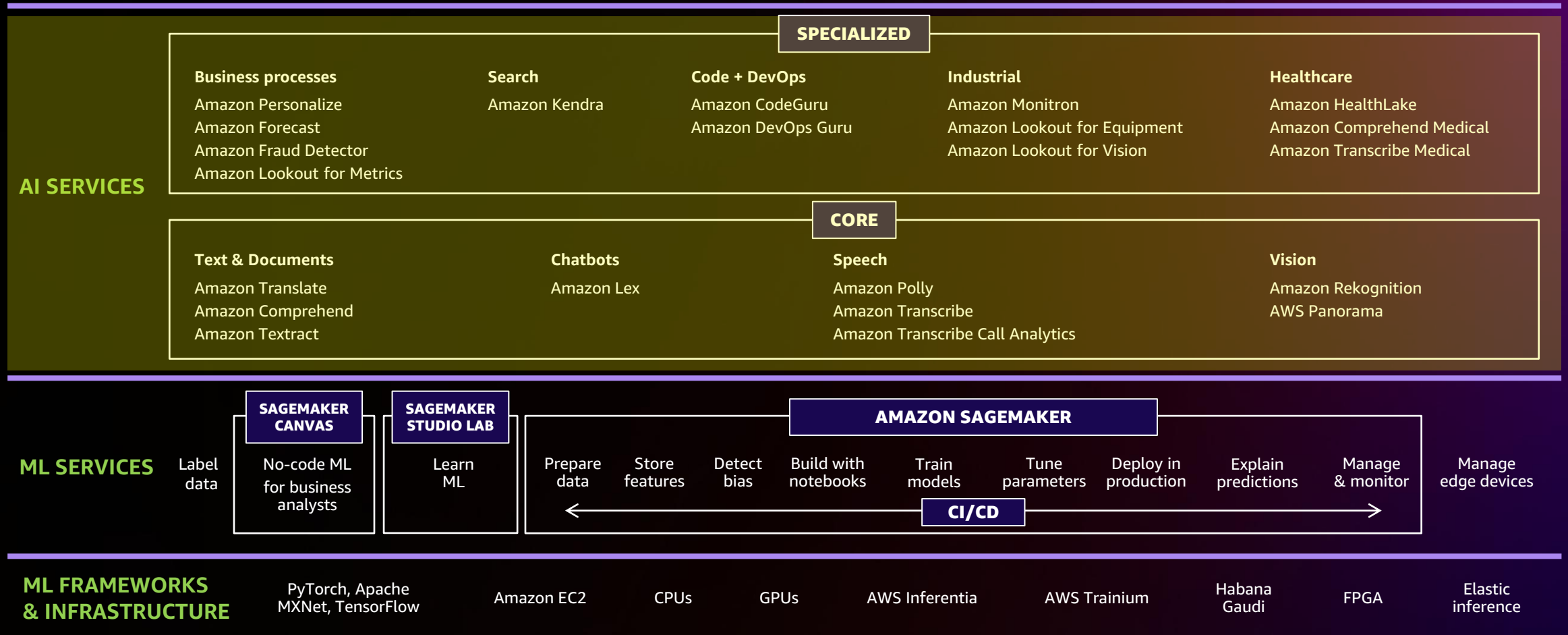
BROADEST AND MOST COMPLETE SET OF MACHINE LEARNING CAPABILITIES



© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

The AWS AI/ML stack

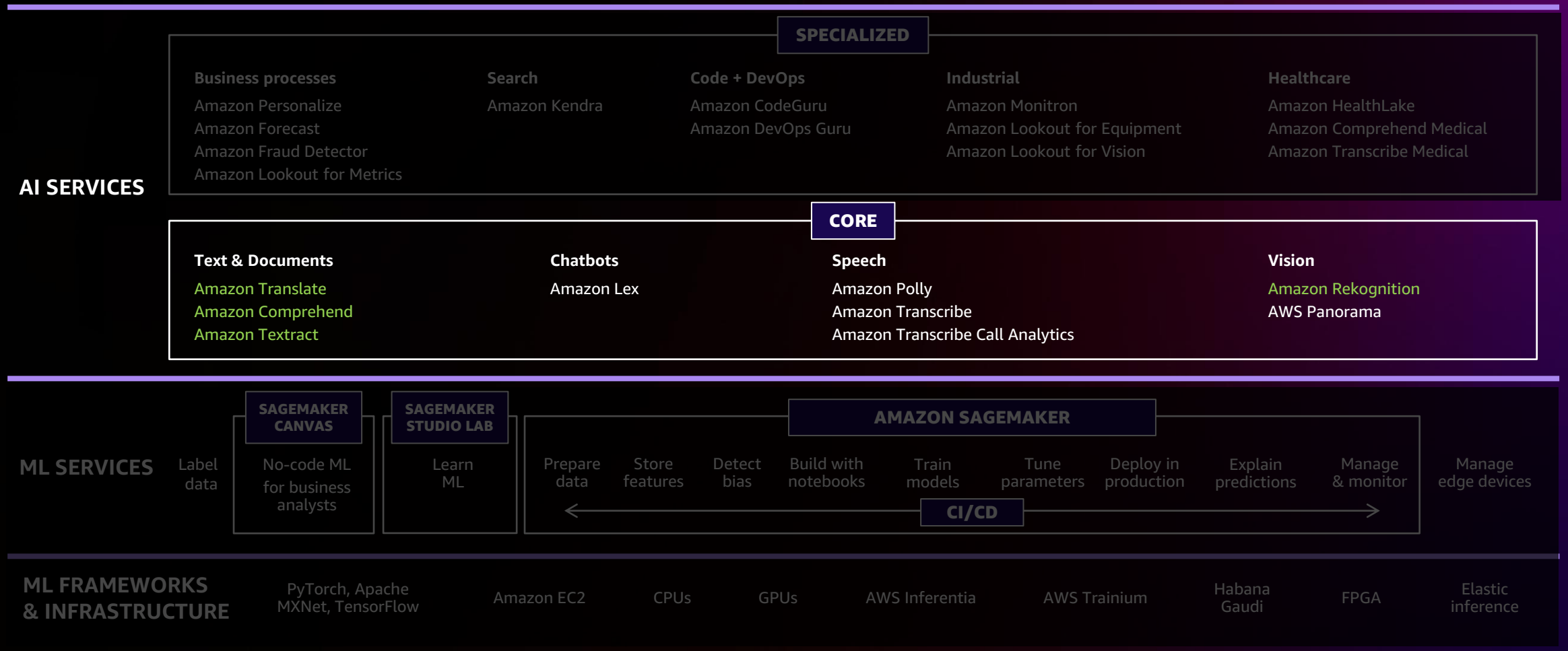
BROADEST AND MOST COMPLETE SET OF MACHINE LEARNING CAPABILITIES



© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

The AWS AI/ML stack

BROADEST AND MOST COMPLETE SET OF MACHINE LEARNING CAPABILITIES



© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Programmable SDK

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

AWS SDK for .NET

- Distributed via NuGet
- Programmatic access to all AWS services
- Various extension libraries
- Cross-platform support for .NET
- Open source
- https://github.com/aws/dotnet



© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Consistent SDK coding pattern

```
// Add the namespaces for the service's client and request/response types
using servicename;
using servicename.Model;

// Create a client object representing the service in a region
var client = new AmazonservicenameClient();

// Call a service operation, represented by a method on the client, with .NET types used to convey
request/response data. The SDK will serialize/deserialize the wire-level data format for you
OperationnameResponse response = await client.OperationnameAsync(new OperationnameRequest
{
    RequestProperty1 = "some data",
    RequestProperty2 = new List<string> { "someother", "data" }
});

// process the deserialized data in the response object
foreach (var element in response.OutputDataMember)
{
   // do something
}
```

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Consistent SDK coding pattern

```
// Add the namespaces for the service's client and request/response types
using servicename;
using servicename.Model;

// Create a client object representing the service in a region
var client = new AmazonservicenameClient();

// Call a service operation, represented by a method on the client, with .NET types used to convey
request/response data. The SDK will serialize/deserialize the wire-level data format for you
OperationnameResponse response = await client.OperationnameAsync(new OperationnameRequest
{
    RequestProperty1 = "some data",
    RequestProperty2 = new List<string> { "someother", "data" }
});

// process the deserialized data in the response object
foreach (var element in response.OutputDataMember)
{
   // do something
}
```

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Consistent SDK coding pattern

```
// Add the namespaces for the service's client and request/response types
using servicename;
using servicename.Model;

// Create a client object representing the service in a region
var client = new AmazonservicenameClient();

// Call a service operation, represented by a method on the client, with .NET types used to convey
request/response data. The SDK will serialize/deserialize the wire-level data format for you
OperationnameResponse response = await client.OperationnameAsync(new OperationnameRequest
{
    RequestProperty1 = "some data",
    RequestProperty2 = new List<string> { "someother", "data" }
});

// process the deserialized data in the response object
foreach (var element in response.OutputDataMember)
{
   // do something
}
```

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Consistent SDK coding pattern

```
// Add the namespaces for the service's client and request/response types
using servicename;
using servicename.Model;

// Create a client object representing the service in a region
var client = new AmazonservicenameClient();

// Call a service operation, represented by a method on the client, with .NET types used to convey
request/response data. The SDK will serialize/deserialize the wire-level data format for you
OperationnameResponse response = await client.OperationnameAsync(new OperationnameRequest
{
    RequestProperty1 = "some data",
    RequestProperty2 = new List<string> { "someother", "data" }
});

// process the deserialized data in the response object
foreach (var element in response.OutputDataMember)
{
   // do something
}
```

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Consistent SDK coding pattern

```
// Add the namespaces for the service's client and request/response types
using servicename;
using servicename.Model;

// Create a client object representing the service in a region
var client = new AmazonservicenameClient();

// Call a service operation, represented by a method on the client, with .NET types used to convey
request/response data. The SDK will serialize/deserialize the wire-level data format for you
OperationnameResponse response = await client.OperationnameAsync(new OperationnameRequest
{
    RequestProperty1 = "some data",
    RequestProperty2 = new List<string> { "someother", "data" }
});
```

```
// process the deserialized data in the response object
foreach (var element in response.OutputDataMember)
{
   // do something
}
```

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Amazon Comprehend

A fully managed and continuously trained service that discovers insights and relationships in text

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Amazon Comprehend

DISCOVER INSIGHTS AND RELATIONSHIPS IN TEXT



Documents

Email, chat, social, phone calls, and more



Amazon Comprehend

Automatically extract insights from text

- **Entities** + Custom entities
- **Key phrases**
- **PII** (personally identifiable information) Labeling + Detection
- **Sentiment +** Targeted sentiment
- **Document classification**
- **Topics**
- **Language**
- **Syntax**
- **Events**

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Building/deploying your own model vs. AI services

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Building/deploying your own model vs. AI services

	Amazon SageMaker or your own ML model Prepare, build, train, and deploy high-quality machine learning models	**AI services** Pre-trained AI services
ML development experience	Required	Not required

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Building/deploying your own model vs. AI services

	Amazon SageMaker or your own ML model Prepare, build, train, and deploy high-quality machine learning models	**AI services** Pre-trained AI services
ML development experience	Required	Not required
Data preparation Data collection, prep, transformation	Required	Not required

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Building/deploying your own model vs. AI services

	Amazon SageMaker or your own ML model Prepare, build, train, and deploy high-quality machine learning models	AI services Pre-trained AI services
ML development experience	Required	Not required
Data preparation Data collection, prep, transformation	Required	Not required
Model selection and training Select and appropriate algorithm to train a model	Required	Not required

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Building/deploying your own model vs. AI services

	Amazon SageMaker or your own ML model Prepare, build, train, and deploy high-quality machine learning models	AI services Pre-trained AI services
ML development experience	Required	Not required
Data preparation Data collection, prep, transformation	Required	Not required
Model selection and training Select and appropriate algorithm to train a model	Required	Not required
Model tuning	Required	Not required

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Building/deploying your own model vs. AI services

	Amazon SageMaker or your own ML model Prepare, build, train, and deploy high-quality machine learning models	AI services Pre-trained AI services
ML development experience	Required	Not required
Data preparation Data collection, prep, transformation	Required	Not required
Model selection and training Select and appropriate algorithm to train a model	Required	Not required
Model tuning	Required	Not required
Model deployment, monitoring, and maintenance	Required	Not required

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Building/deploying your own model vs. AI services

	Amazon SageMaker or your own ML model Prepare, build, train, and deploy high-quality machine learning models	AI services Pre-trained AI services
ML development experience	Required	Not required
Data preparation Data collection, prep, transformation	Required	Not required
Model selection and training Select and appropriate algorithm to train a model	Required	Not required
Model tuning	Required	Not required
Model deployment, monitoring, and maintenance	Required	Not required
Easy-to-use API for real-time and batch inferences	Must be implemented	Ready to use

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Sentiment detection

"The burger was delicious, but it was soggy."

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Sentiment detection

"The burger was delicious, but it was soggy."

Overall sentiment

Neutral:	0.00 confidence
Positive:	0.00 confidence
Negative:	0.00 confidence
Mixed:	0.99 confidence

Targeted sentiment

Mention 1	burger	Type: OTHER	SentimentScore: "Positive": 0.999996
	it	Type: OTHER	SentimentScore: "Negative": 0.999904

aws

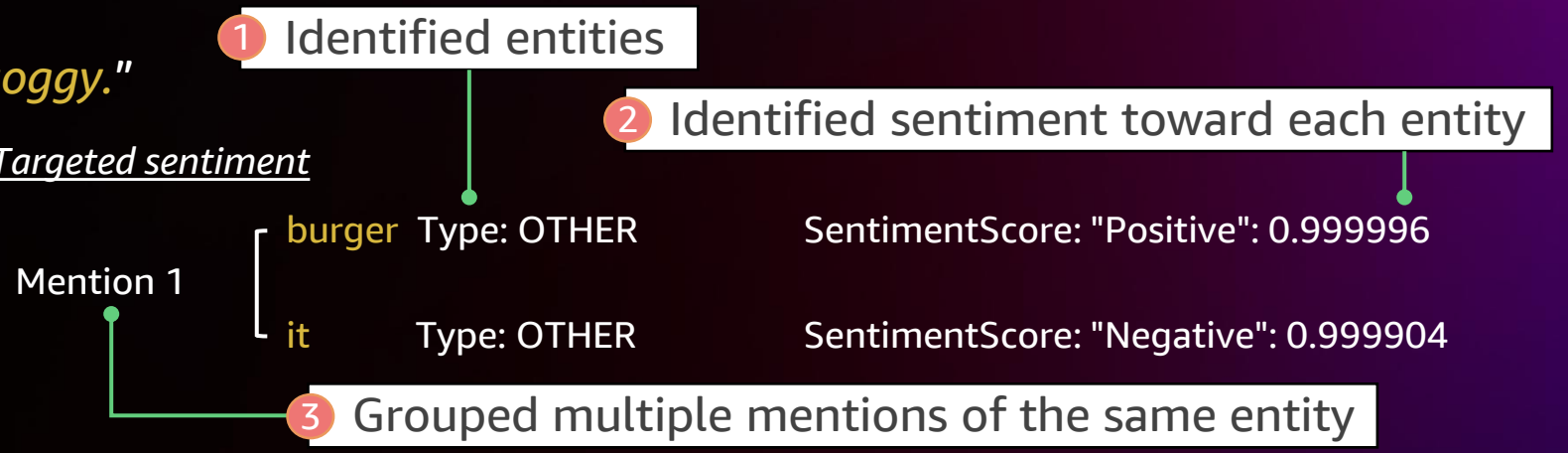
© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Sentiment detection

"The burger was delicious, but it was soggy."

Overall sentiment

Neutral:	0.00 confidence
Positive:	0.00 confidence
Negative:	0.00 confidence
Mixed:	0.99 confidence



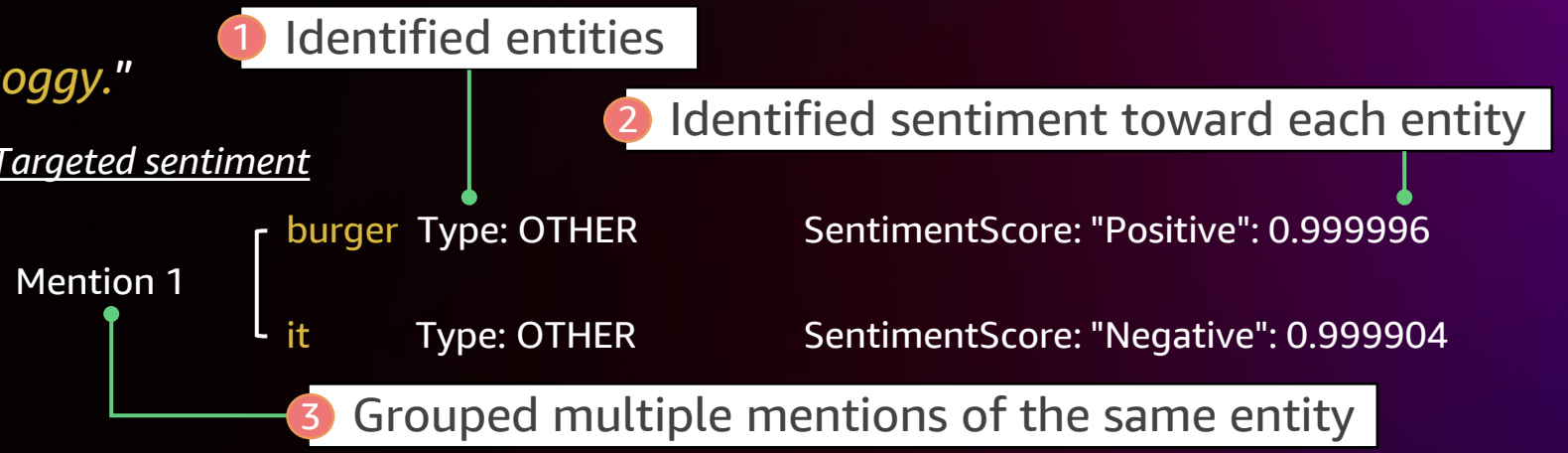
© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Sentiment detection

"The burger was delicious, but it was soggy."

Overall sentiment

Neutral:	0.00 confidence
Positive:	0.00 confidence
Negative:	0.00 confidence
Mixed:	0.99 confidence



"The tacos were delicious and the staff was friendly."

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Sentiment detection

"*The burger was delicious, but it was soggy.*"

Overall sentiment

Neutral:	0.00 confidence
Positive:	0.00 confidence
Negative:	0.00 confidence
Mixed:	0.99 confidence

Targeted sentiment

1 Identified entities

2 Identified sentiment toward each entity

Mention 1	burger	Type: OTHER	SentimentScore: "Positive": 0.999996
	it	Type: OTHER	SentimentScore: "Negative": 0.999904

3 Grouped multiple mentions of the same entity

"*The tacos were delicious and the staff was friendly.*"

Overall sentiment

Neutral:	0.00 confidence
Positive:	0.99 confidence
Negative:	0.00 confidence
Mixed:	0.00 confidence

Targeted sentiment

Mention 1	tacos	Type: OTHER	SentimentScore: "Positive": 1.0
Mention 2	staff	Type: PERSON	SentimentScore: "Positive": 0.999999

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Amazon Translate

Neural machine translation service

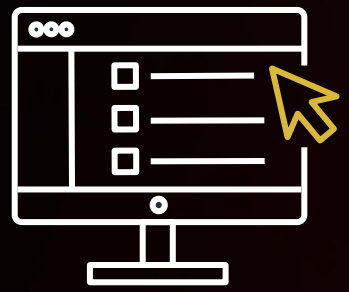
© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Amazon Translate

NEURAL MACHINE TRANSLATION SERVICE



Highly accurate, fluent, and contextual



Easy to integrate into your applications



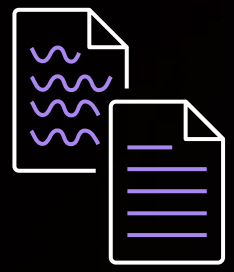
Fully managed service that is continuously trained and scalable

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Deliver a versatile language experience

HOW TO BECOME A FULLY GLOBAL ORGANIZATION

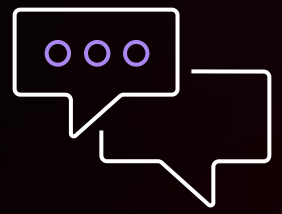


Localization

Enterprise content

Media subtitling

Archives



Communication

Customer engagement

In-game chat

Social media posts



Text analytics

Voice of customer

Media analysis

eDiscovery

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Amazon Textract

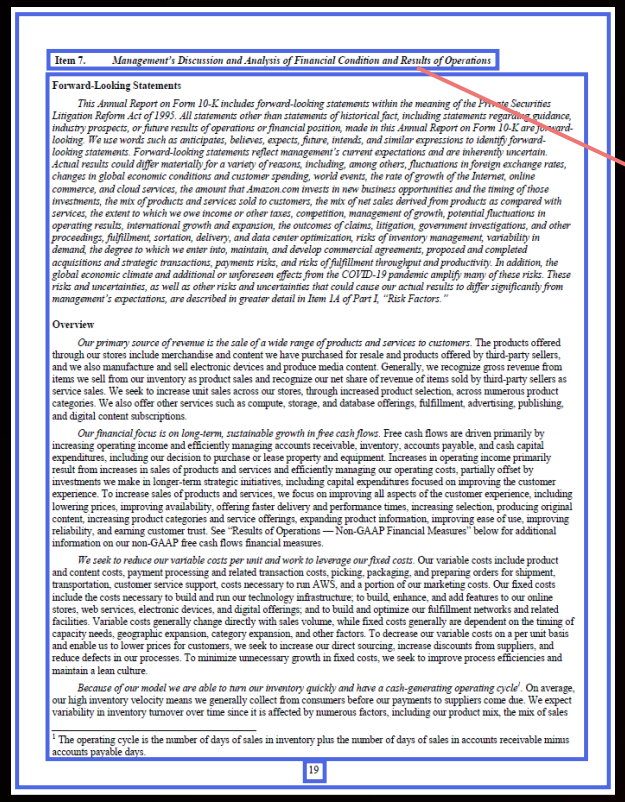
Automatically extract printed text, handwriting, and data from any document

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Text extraction

OPTIMAL FOR DENSE TEXT EXTRACTION WITH INDUSTRY-LEADING OCR ACCURACY

DOCUMENT



Item 7. *Management's Discussion and Analysis of Financial Condition and Results of Operations*

Forward-Looking Statements

This Annual Report on Form 10-K includes forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. All statements other than statements of historical fact, including statements regarding guidance, industry prospects, or future results of operations or financial position, made in this Annual Report on Form 10-K are forward-looking. We use words such as anticipates, believes, expects, future, intends, and similar expressions to identify forward-looking statements. Forward-looking statements reflect management's current expectations and are inherently uncertain. Actual results could differ materially for a variety of reasons, including, among others, fluctuations in foreign exchange rates, changes in global economic conditions and customer spending, world events, the rate of growth of the Internet, online commerce, and cloud services, the amount that Amazon.com invests in new business opportunities and the timing of those investments, the mix of products and services sold to customers, the mix of net sales derived from products as compared with services, the extent to which we owe income or other taxes, competition, management of growth, potential fluctuations in operating results, international growth and expansion, the outcomes of claims, litigation, government investigations, and other proceedings, fulfillment, sortation, delivery, and data center optimization, risks of inventory management, variability in demand, the degree to which we enter into, maintain, and develop commercial agreements, proposed and completed acquisitions and strategic transactions, payments risks, and risks of fulfillment throughput and productivity. In addition, the global economic climate and additional or unforeseen effects from the COVID-19 pandemic amplify many of these risks. These risks and uncertainties, as well as other risks and uncertainties that could cause our actual results to differ significantly from management's expectations, are described in greater detail in Item 1A of Part I, "Risk Factors."

Overview

Our primary source of revenue is the sale of a wide range of products and services to customers. The products offered through our stores include merchandise and content we have purchased for resale and products offered by third-party sellers, and we also manufacture and sell electronic devices and produce media content. Generally, we recognize gross revenue from items we sell from our inventory as product sales and recognize our net share of revenue of items sold by third-party sellers as service sales. We seek to increase unit sales across our stores, through increased product selection, across numerous product categories. We also offer other services such as compute, storage, and database offerings, fulfillment, advertising, publishing, and digital content subscriptions.

Our financial focus is on long-term, sustainable growth in free cash flows. Free cash flows are driven primarily by increasing operating income and efficiently managing accounts receivable, inventory, accounts payable, and cash capital expenditures, including our decision to purchase or lease property and equipment. Increases in operating income primarily result from increases in sales of products and services and efficiently managing our operating costs, partially offset by investments we make in longer-term strategic initiatives, including capital expenditures focused on improving the customer experience. To increase sales of products and services, we focus on improving all aspects of the customer experience, including lowering prices, improving availability, offering faster delivery and performance times, increasing selection, producing original content, increasing product categories and service offerings, expanding product information, improving ease of use, improving reliability, and earning customer trust. See "Results of Operations — Non-GAAP Financial Measures" below for additional information on our non-GAAP free cash flows financial measures.

We seek to reduce our variable costs per unit and work to leverage our fixed costs. Our variable costs include product and content costs, payment processing and related transaction costs, picking, packaging, and preparing orders for shipment, transportation, customer service support, costs necessary to run AWS, and a portion of our marketing costs. Our fixed costs include the costs necessary to build and run our technology infrastructure; to build, enhance, and add features to our online stores, web services, electronic devices, and digital offerings; and to build and optimize our fulfillment networks and related facilities. Variable costs generally change directly with sales volume, while fixed costs generally are dependent on the timing of capacity needs, geographic expansion, category expansion, and other factors. To decrease our variable costs on a per unit basis and enable us to lower prices for customers, we seek to increase our direct sourcing, increase discounts from suppliers, and reduce defects in our processes. To minimize unnecessary growth in fixed costs, we seek to improve process efficiencies and maintain a lean culture.

Because of our model we are able to turn our inventory quickly and have a cash-generating operating cycle[1]. On average, our high inventory velocity means we generally collect from consumers before our payments to suppliers come due. We expect variability in inventory turnover over time since it is affected by numerous factors, including our product mix, the mix of sales

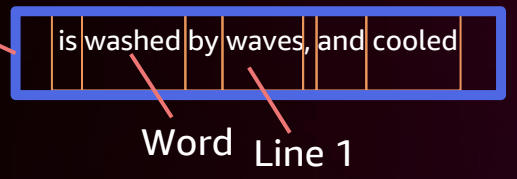
[1] The operating cycle is the number of days of sales in inventory plus the number of days of sales in accounts receivable minus accounts payable days.

19

OUTPUT

Blocks:

PAGE, LINE, WORD



© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Table extraction

EXTRACT TABLES FROM DOCUMENTS WHILE PRESERVING DATA STRUCTURE AND RELATIONSHIPS

DOCUMENT

Previous employment history				
Start date	End date	Employer name	Position held	Reason for leaving
1/15/2009	6/30/2013	Any company	Head Baker	Family relocated
8/15/2013	Present	Example corp.	Baker	N/A, current employer

OUTPUT

Blocks:

PAGE, TABLE, CELL

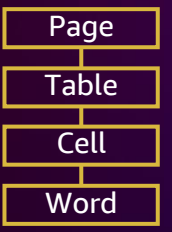
For each “Block” you get:

TEXT

CONFIDENCE SCORE

BLOCK RELATIONSHIPS

(e.g., cells within a table)



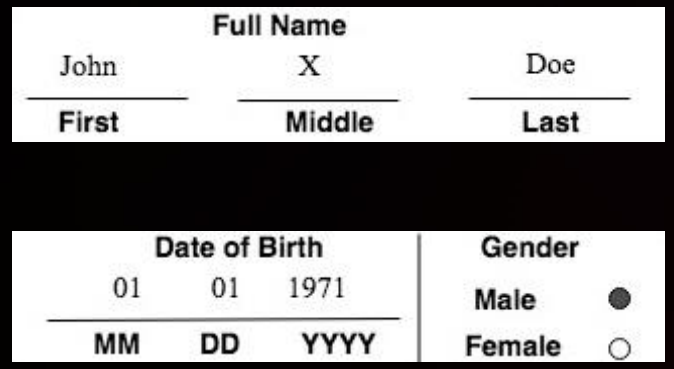
aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Form extraction

EXTRACT FORM DATA FROM DOCUMENTS AS KEY-VALUE PAIRS TO PRESERVE DOCUMENT STRUCTURE

DOCUMENT



OUTPUT

First: John
Middle: X
Last: Doe

MM: 01
DD: 01
YYYY: 1971

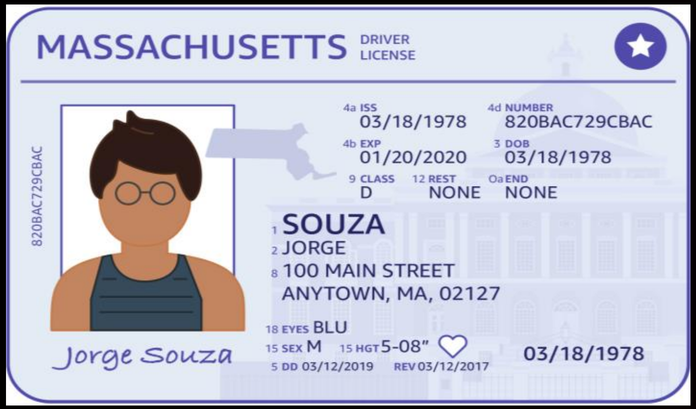
Male: True
Female: False

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Identity documents

SPECIALIZED SUPPORT FOR IDENTITY DOCUMENTS

DOCUMENT





OUTPUT

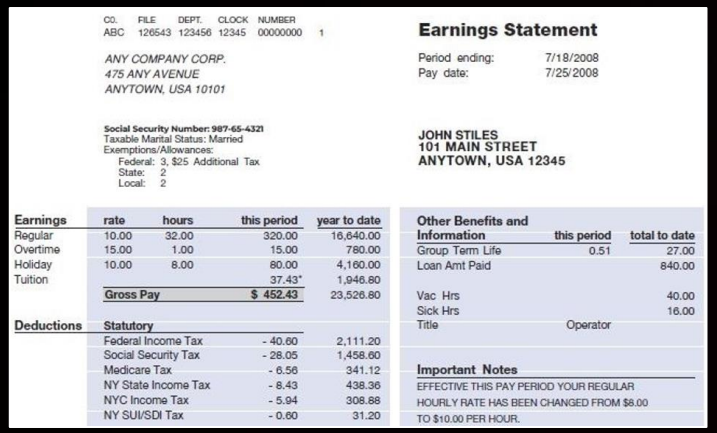
First Name: JORGE
Last Name: SOUZA
Address Line1: 100 MAIN STREET
State: MA
Document Number: 820BAC729CBAC
Expiration Date: 01/20/2020
Date of Birth: 03/18/1978
ID Type: Driver License
Date of Issue: 03/18/1978
Issued By: MASSACHUSETTS
Class: D

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Textract Queries

EXTRACT INSIGHTS FROM DOCUMENTS USING PLAIN LANGUAGE

DOCUMENT



CO. FILE DEPT. CLOCK NUMBER
ABC 126543 123456 12345 00000000 1

ANY COMPANY CORP.
475 ANY AVENUE
ANYTOWN, USA 10101

Earnings Statement

Period ending: 7/18/2008
Pay date: 7/25/2008

Social Security Number: 987-65-4321
Taxable Marital Status: Married
Exemptions/Allowances:
Federal: 3, $25 Additional Tax
State: 2
Local: 2

JOHN STILES
101 MAIN STREET
ANYTOWN, USA 12345

Earnings	rate	hours	this period	year to date
Regular	10.00	32.00	320.00	16,640.00
Overtime	15.00	1.00	15.00	780.00
Holiday	10.00	8.00	80.00	4,160.00
Tuition			37.43*	1,946.80
	Gross Pay		$ 452.43	23,526.80

Deductions	Statutory		
	Federal Income Tax	- 40.60	2,111.20
	Social Security Tax	- 28.05	1,458.60
	Medicare Tax	- 6.56	341.12
	NY State Income Tax	- 8.43	438.36
	NYC Income Tax	- 5.94	308.88
	NY SUI/SDI Tax	- 0.60	31.20

Other Benefits and Information	this period	total to date
Group Term Life	0.51	27.00
Loan Amt Paid		840.00
Vac Hrs		40.00
Sick Hrs		16.00
Title	Operator	

Important Notes
EFFECTIVE THIS PAY PERIOD YOUR REGULAR HOURLY RATE HAS BEEN CHANGED FROM $8.00 TO $10.00 PER HOUR.

QUESTIONS

Example questions for a pay stub:

1. What is YTD gross pay?
2. What is gross pay this period?
3. What is employee SSN?
4. How many sick hours did the employee earn?

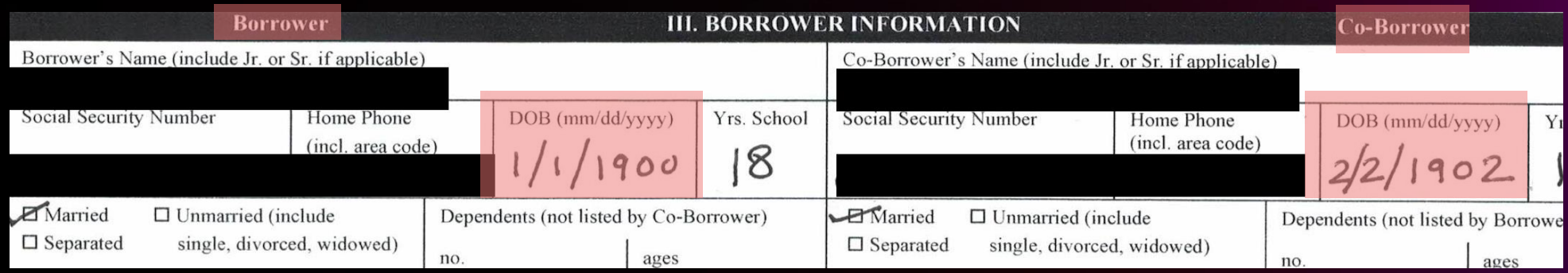
OUTPUT

1. What is YTD gross pay?
   $23,526.80
2. What is gross pay this period?
   $452.43
3. What is employee SSN?
   987-65-4321
4. How many sick hours did the employee earn?
   16.00

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Textract Queries

CONTEXT FROM IMPLIED AND NESTED FIELDS HELPS TO PROVIDE ANSWERS



Borrower

III. BORROWER INFORMATION

Co-Borrower

Borrower's Name (include Jr. or Sr. if applicable)				Co-Borrower's Name (include Jr. or Sr. if applicable)			
[redacted]				[redacted]			
Social Security Number	Home Phone (incl. area code)	DOB (mm/dd/yyyy)	Yrs. School	Social Security Number	Home Phone (incl. area code)	DOB (mm/dd/yyyy)	Yr
	[redacted]	1/1/1900	18		[redacted]	2/2/1902	1
☑ Married ☐ Separated ☐ Unmarried (include single, divorced, widowed)		Dependents (not listed by Co-Borrower) no.	ages	☑ Married ☐ Separated ☐ Unmarried (include single, divorced, widowed)		Dependents (not listed by Borrowe no.	ages

OUTPUT

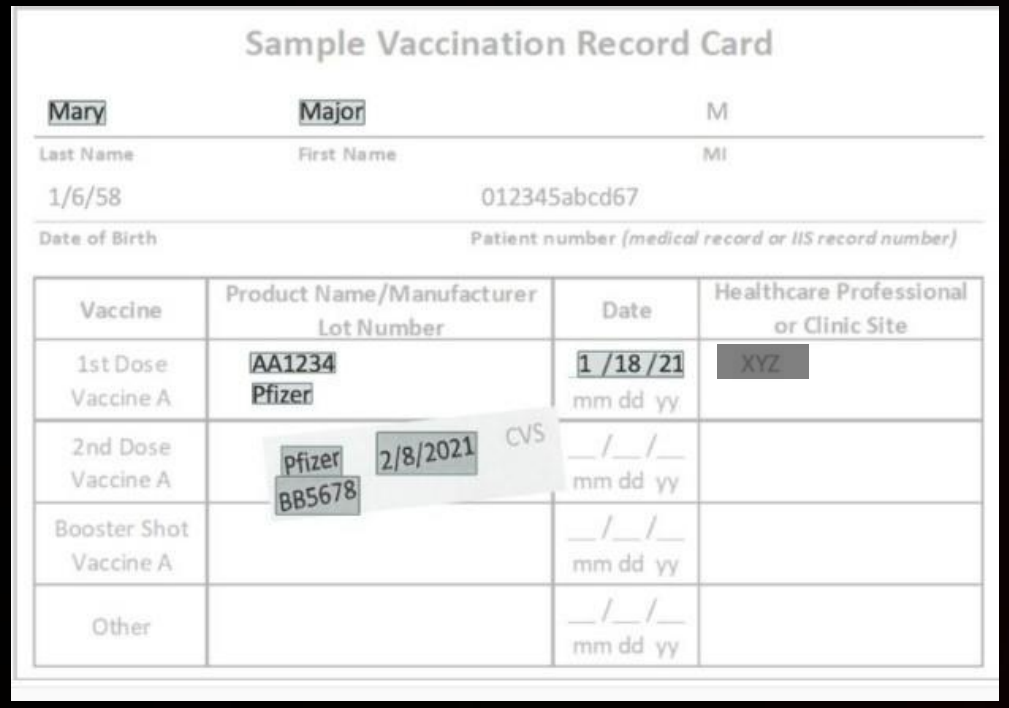
1. What is the borrower's date of birth?
   1/1/1900

2. What is the co-borrower's date of birth?
   2/2/1902

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Textract Queries

CAN LOCATE HIGH VALUE INFORMATION FROM TABLES AND FORMS



Sample Vaccination Record Card

Mary | Major | M

Last Name | First Name | MI

1/6/58 | 012345abcd67

Date of Birth | Patient number *(medical record or IIS record number)*

Vaccine	Product Name/Manufacturer Lot Number	Date	Healthcare Professional or Clinic Site
1st Dose Vaccine A	AA1234 Pfizer	1 /18 /21 mm dd yy	XYZ
2nd Dose Vaccine A	Pfizer 2/8/2021 CVS BB5678	__/__/__ mm dd yy	
Booster Shot Vaccine A		__/__/__ mm dd yy	
Other		__/__/__ mm dd yy	

OUTPUT

1. What is the date for the 1st dose covid-19?
   1/18/21

2. Which clinic site was the 1st dose covid-19 administrated?
   XYZ

3. What is the lot number for 2nd dose covid-19?
   BB5678

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Amazon Rekognition

Image and video analysis

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Amazon Rekognition features



OBJECT, SCENE, AND ACTIVITY



CUSTOM LABELS



CONTENT MODERATION



TEXT



PPE DETECTION



FACE DETECTION AND ANALYSIS



FACE COMPARE & SEARCH



CELEBRITY RECOGNITION



VIDEO SEGMENTS



LIVE STREAM VIDEO



PATHING

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Virtual proctoring overview

PROCTORING EXAMS USING A WEB-BASED APPLICATION AND WEBCAM

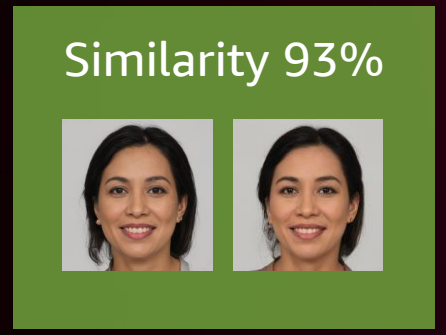


Reference image



Video frame





Exam access granted

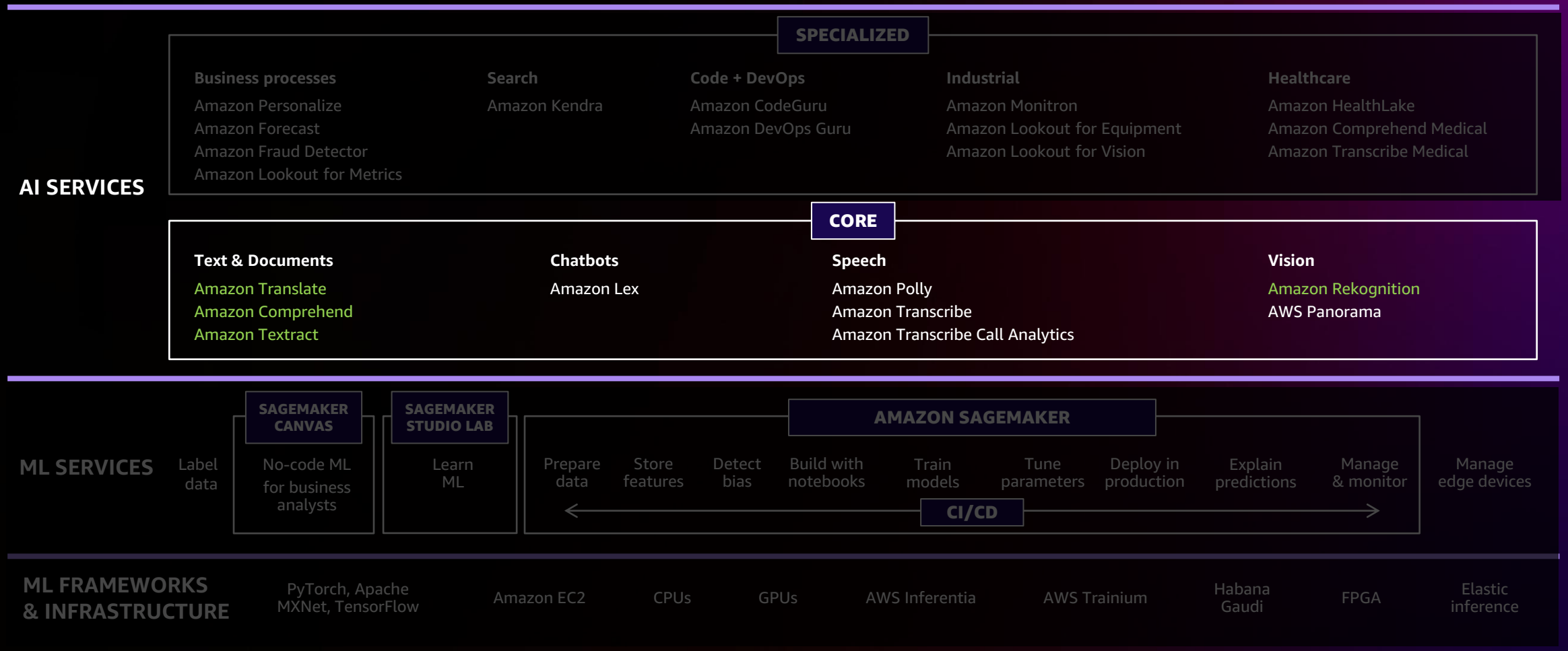
© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Wrap-up and resources

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

The AWS AI/ML stack

BROADEST AND MOST COMPLETE SET OF MACHINE LEARNING CAPABILITIES



© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Real-life example

AWS Machine Learning Blog

Process mortgage documents with intelligent document processing using Amazon Textract and Amazon Comprehend

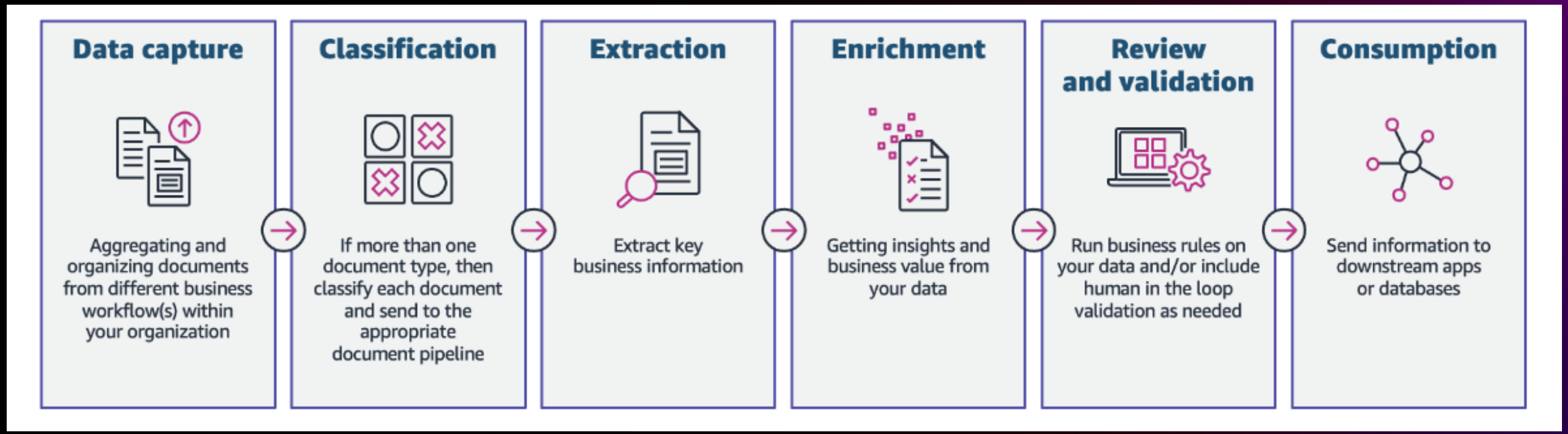
by Anjan Biswas, Balaji Puli, and Dwiti Pathak | on 26 AUG 2022 | in Advanced (300), Amazon Comprehend, Amazon Textract, Artificial Intelligence | Permalink | Comments | Share

https://aws.amazon.com/blogs/machine-learning/process-mortgage-documents-with-intelligent-document-processing-using-amazon-textract-and-amazon-comprehend/

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Real-life example



https://aws.amazon.com/blogs/machine-learning/process-mortgage-documents-with-intelligent-document-processing-using-amazon-textract-and-amazon-comprehend/

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Resources



Source code of all the demos (https://bit.ly/3Dp8kDt)



.NET Developer Dojo (https://bit.ly/3TP6YqP)



AWS serverless reference architecture – Text To Speech Assistant (https://bit.ly/3TyZUPo)



AWS serverless reference architecture – Image Recognition (https://bit.ly/3N0dXem)

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Thank you!

Alexander Dragunov
adrag

Prasad Rao
kprasadrao



Please complete the session survey in the **mobile app**

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.