

# MAJOR PROJECT

## SENTIMENTAL ANALYSIS FOR TEXT ANALYTICS

### PROCEDURE:

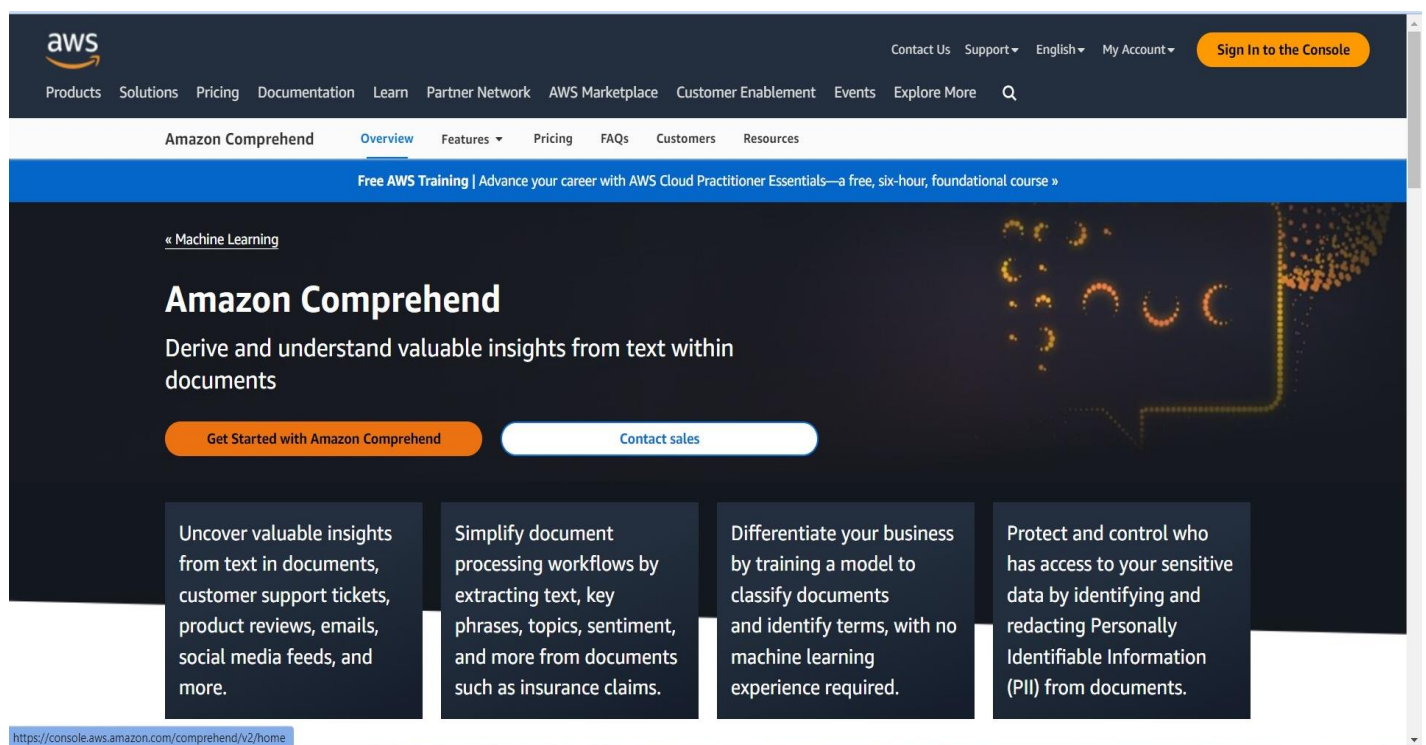
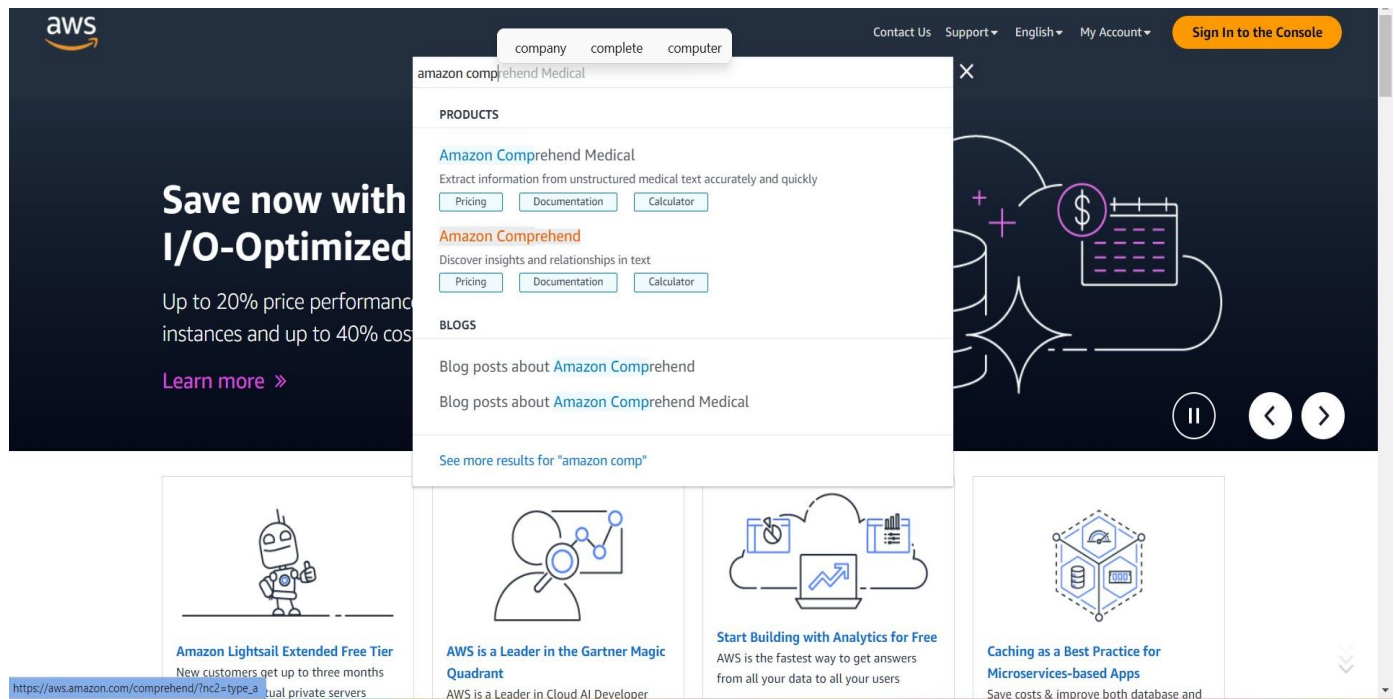
In AWS (Amazon Web Services), you can perform sentiment analysis using services such as Amazon Comprehend. Gather the text data that you want to analyze and ensure it is in a suitable format, such as a text file. Upload your text data to an appropriate storage service in AWS, such as Amazon S3 (Simple Storage Service). This will provide a secure and scalable storage solution for your data. Preprocess your text data to remove noise, irrelevant information, or any specific elements that may affect sentiment analysis. This can include steps like removing special characters, punctuation, stopwords, and converting the text to lowercase.

The screenshot shows the AWS homepage with a dark blue header. The header includes the AWS logo, navigation links (Products, Solutions, Pricing, Documentation, Learn, Partner Network, AWS Marketplace, Customer Enablement, Events, Explore More), and a 'Sign In to the Console' button. The main banner features the text 'Build with Generative AI on AWS' and 'Innovate faster to reinvent customer experiences and applications', with a 'Learn more »' link. To the right of the banner is a green circuit-like graphic. Below the banner are four promotional cards:

- Amazon Lightsail Extended Free Tier**: New customers get up to three months of free usage on dual private servers.
- AWS is a Leader in the Gartner Magic Quadrant**: AWS is a Leader in Cloud AI Developer.
- Start Building with Analytics for Free**: AWS is the fastest way to get answers from all your data to all your users.
- Caching as a Best Practice for Microservices-based Apps**: Save costs & improve both database and application performance.

At the bottom left, there is a small blue box with the text: 'Waiting for clientlogger.marketplace.aws.a2z.com...'

Create an Amazon Comprehend service instance in your AWS account. Amazon Comprehend is a natural language processing (NLP) service that provides pre-trained models for sentiment analysis.



Machine learning

# Amazon Comprehend

## Natural Language Processing and Text Analytics

Amazon Comprehend is a natural language processing (NLP) service that uses machine learning to find insights and relationships in text.

**Start analyzing text**

Jump in and try our APIs for Amazon Comprehend.

[Launch Amazon Comprehend](#)

**Pricing (US)**

With Amazon Comprehend, you pay only for what you use. You are charged based on the amount of text processed on a monthly basis, and there are no minimum fees and no upfront commitments.

[Learn more](#)

**Getting started**

**How it works**

CloudShell Feedback Language

© 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

Use the Amazon Comprehend service to create a sentiment analysis job. Specify the location of your text data stored in Amazon S3, and configure the desired settings, such as the language of the text and the output format.

Amazon Comprehend

Real-time analysis

## Real-time analysis

Analyze text in real time by using built-in or custom models. With built-in models, you can recognize entities, extract key phrases, detect dominant languages, detect PII, determine sentiment, detect targeted sentiment, or analyze syntax. With custom models, you can detect entities that you define, or you can classify documents using your own categories or labels.

**Overview**

**Real-time analysis with built-in models**

Use Amazon Comprehend built-in models to analyze content in real time.

**Custom real-time analysis with endpoint**

[Create an endpoint](#) for your custom model to classify documents or detect custom entities in real time.

**Input data**

[Supported languages](#)

**Analysis type**

☒ **Built-in**

View real-time insights based on AWS built-in models.

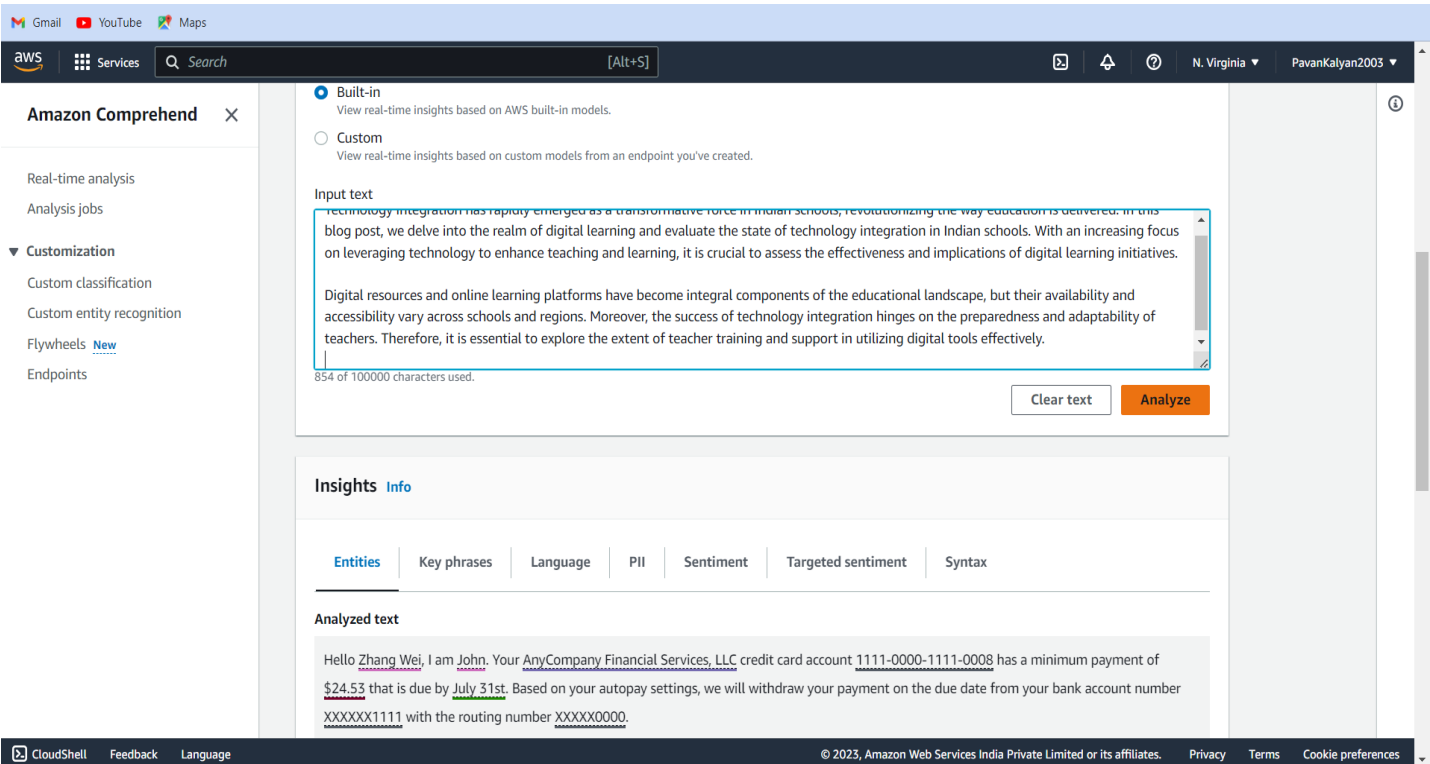
☐ **Custom**

View real-time insights based on custom models from an endpoint you've created.

CloudShell Feedback Language

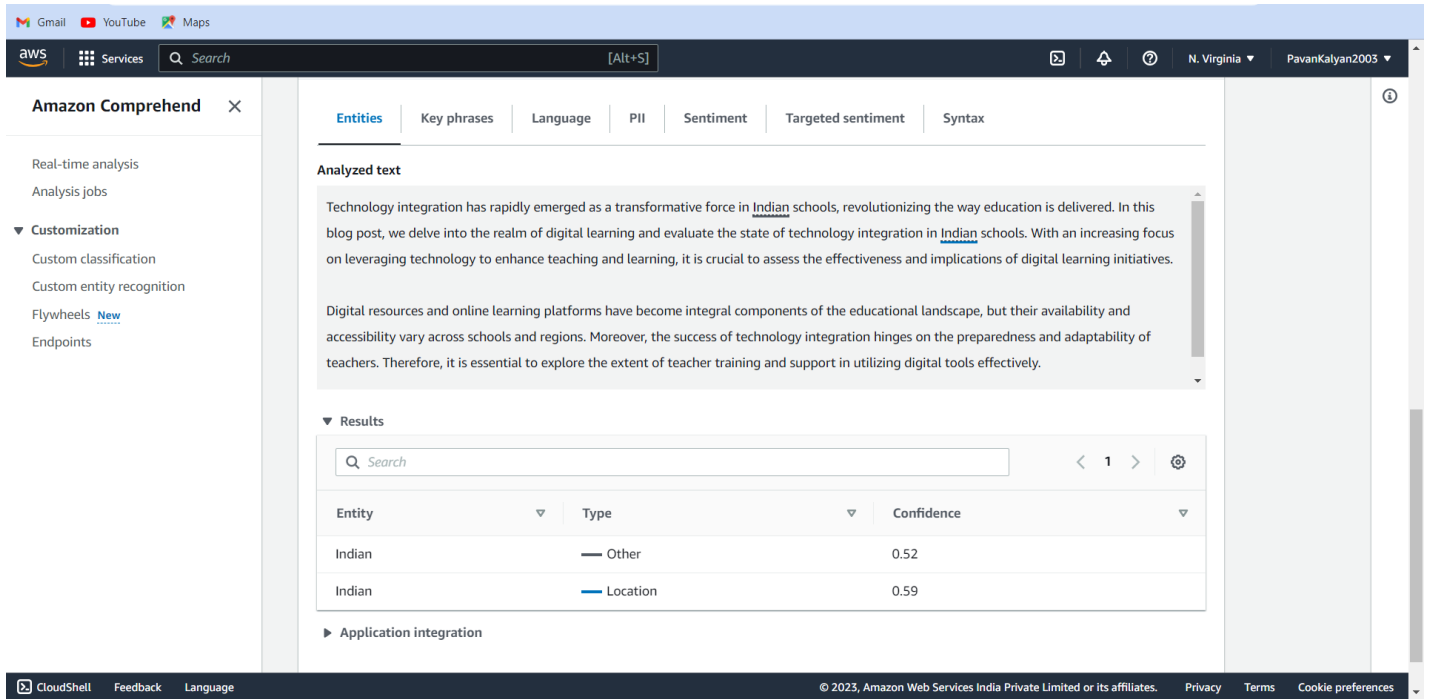
© 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

Trigger the sentiment analysis job in Amazon Comprehend, which will process your text data and generate sentiment analysis results.



Once the sentiment analysis job is complete, you can access the results through the Amazon Comprehend service. The results will typically include sentiment scores for each text, indicating the detected sentiment (positive, negative, or neutral) and the confidence level associated with each sentiment.

## 1)Entities



Amazon Comprehend

Real-time analysis  
Analysis jobs

Customization

- Custom classification
- Custom entity recognition
- Flywheels [New](#)
- Endpoints

Entities | Key phrases | Language | PII | Sentiment | Targeted sentiment | Syntax

Analyzed text

Technology integration has rapidly emerged as a transformative force in Indian schools, revolutionizing the way education is delivered. In this blog post, we delve into the realm of digital learning and evaluate the state of technology integration in Indian schools. With an increasing focus on leveraging technology to enhance teaching and learning, it is crucial to assess the effectiveness and implications of digital learning initiatives.

Digital resources and online learning platforms have become integral components of the educational landscape, but their availability and accessibility vary across schools and regions. Moreover, the success of technology integration hinges on the preparedness and adaptability of teachers. Therefore, it is essential to explore the extent of teacher training and support in utilizing digital tools effectively.

Results

Search

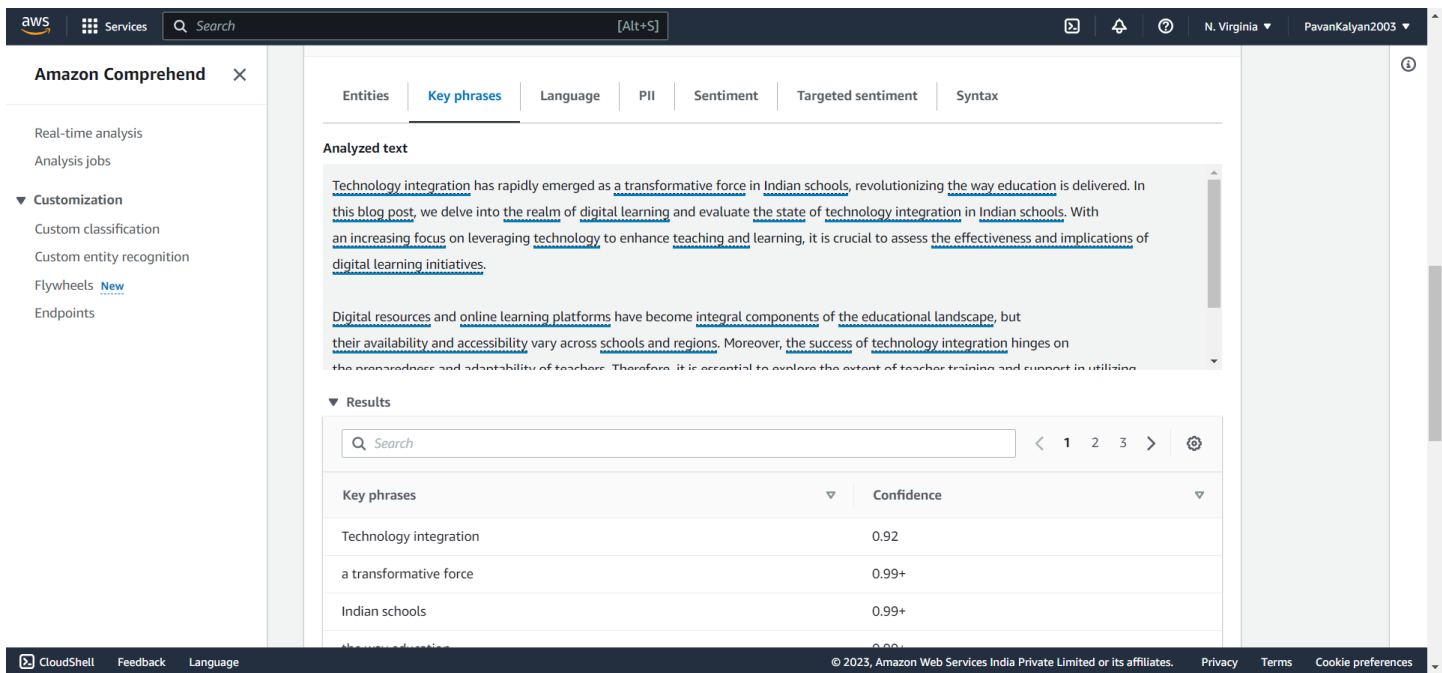
Entity	Type	Confidence
Indian	Other	0.52
Indian	Location	0.59

Application integration

CloudShell Feedback Language

© 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

## 2)Key phrases



Amazon Comprehend

Real-time analysis  
Analysis jobs

Customization

- Custom classification
- Custom entity recognition
- Flywheels [New](#)
- Endpoints

Entities | **Key phrases** | Language | PII | Sentiment | Targeted sentiment | Syntax

Analyzed text

Technology integration has rapidly emerged as a transformative force in Indian schools, revolutionizing the way education is delivered. In this blog post, we delve into the realm of digital learning and evaluate the state of technology integration in Indian schools. With an increasing focus on leveraging technology to enhance teaching and learning, it is crucial to assess the effectiveness and implications of digital learning initiatives.

Digital resources and online learning platforms have become integral components of the educational landscape, but their availability and accessibility vary across schools and regions. Moreover, the success of technology integration hinges on the preparedness and adaptability of teachers. Therefore, it is essential to explore the extent of teacher training and support in utilizing digital tools effectively.

Results

Search

Key phrases	Confidence
Technology integration	0.92
a transformative force	0.99+
Indian schools	0.99+

CloudShell Feedback Language

© 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

aws

Services

Search

[Alt+S]

N. Virginia

PavanKalyan2003

Amazon Comprehend

Real-time analysis

Analysis jobs

Customization

Custom classification

Custom entity recognition

Flywheels

Endpoints

Results

Search

Key phrases	Confidence
Technology integration	0.92
a transformative force	0.99+
Indian schools	0.99+
the way education	0.99+
this blog post	0.99+
the realm	0.99+
digital learning	0.98
the state	0.99+
technology integration	0.99+
Indian schools	0.99+

Application integration

API call and API response of DetectKeyPhrases API.

CloudShell

Feedback

Language

© 2023, Amazon Web Services India Private Limited or its affiliates.

Privacy

Terms

Cookie preferences

## Generated API call and response

aws

Services

Search

[Alt+S]

N. Virginia

PavanKalyan2003

Amazon Comprehend

Real-time analysis

Analysis jobs

Customization

Custom classification

Custom entity recognition

Flywheels

Endpoints

Application integration

API call and API response of DetectEntities API.

API call

API response

Copy

Copy

CloudShell

Feedback

Language

© 2023, Amazon Web Services India Private Limited or its affiliates.

Privacy

Terms

Cookie preferences

3)Language

aws

Services

Search

[Alt+S]

N. Virginia

PavanKalyan2003

Amazon Comprehend

Real-time analysis

Analysis jobs

Customization

Custom classification

Custom entity recognition

Flywheels

Endpoints

Entities

Key phrases

Language

PII

Sentiment

Targeted sentiment

Syntax

Analyzed text

Technology integration has rapidly emerged as a transformative force in Indian schools, revolutionizing the way education is delivered. In this blog post, we delve into the realm of digital learning and evaluate the state of technology integration in Indian schools. With an increasing focus on leveraging technology to enhance teaching and learning, it is crucial to assess the effectiveness and implications of digital learning initiatives.

Digital resources and online learning platforms have become integral components of the educational landscape, but their availability and accessibility vary across schools and regions. Moreover, the success of technology integration hinges on the preparedness and adaptability of teachers. Therefore, it is essential to explore the extent of teacher training and support in utilizing digital tools effectively.

Results

Language

English, en

0.99 confidence

Application integration

API call and API response of DetectDominantLanguage API.

API call

API response

CloudShell

Feedback

Language

© 2023, Amazon Web Services India Private Limited or its affiliates.

Privacy

Terms

Cookie preferences

OUTPUT (SENTIMENT ANALYSIS):

Text Analysis to Neutral , Positive , Negative and Mixed

aws

Services

Search

[Alt+S]

N. Virginia

PavanKalyan2003

Amazon Comprehend

Real-time analysis

Analysis jobs

Customization

Custom classification

Custom entity recognition

Flywheels

Endpoints

Results

Sentiment

Neutral

Positive

Negative

Mixed

Application integration

API call and API response of DetectSentiment API.

API call

API response

CloudShell

Feedback

Language

© 2023, Amazon Web Services India Private Limited or its affiliates.

Privacy

Terms

Cookie preferences



aws

Services

Search

[Alt+S]

N. Virginia

PavanKalyan2003

Amazon Comprehend

Real-time analysis

Analysis jobs

Customization

Custom classification

Custom entity recognition

Flywheels

Endpoints

Results

Search

< 1 2 3 4 5 6 7 ... 14 >

Word	Part of speech	Confidence
Technology	Noun	0.97
integration	Noun	0.99+
has	Auxiliary verb	0.99+
rapidly	Adverb	0.99+
emerged	Verb	0.99+
as	Adposition	0.99+
a	Determiner	0.99+
transformative	Adjective	0.98
force	Noun	0.99+
in	Adposition	0.99+

Application integration

API call and API response of DetectSyntax API.

API call

API response

CloudShellFeedbackLanguage© 2023, Amazon Web Services India Private Limited or its affiliates.PrivacyTermsCookie preferences

aws

Services

Search

[Alt+S]

N. Virginia

PavanKalyan2003

Amazon Comprehend

Real-time analysis

Analysis jobs

Customization

Custom classification

Custom entity recognition

Flywheels

Endpoints

Application integration

API call and API response of DetectSyntax API.

API call

API response

Copy

Copy

CloudShellFeedbackLanguage© 2023, Amazon Web Services India Private Limited or its affiliates.PrivacyTermsCookie preferences