


Amazon Comprehend

Amazon Comprehend is a natural-language processing service that uses machine learning to uncover valuable insights and connections in text.



Amazon Comprehend

Detecting the dominant language

detect-dominant-language 
batch-detect-dominant-language
start-dominant-language-detection-job

```
{  
  "Text": "Mi maestra es Guatamalteca"  →  
}
```

```
"Languages": {  
  "LanguageCode": "es",  
  "Score": 0.8301774859428406  
}
```



Detecting named entities: Results

```
{  
  "Text": "Hello, I am John from AnyCompany  
Financial Services.",  
  "LanguageCode": "en"  
}
```

```
"Entities": [  
  {  
    "Score": 0.9996919631958008,  
    "Type": "PERSON",  
    "Text": "John",  
    "BeginOffset": 12,  
    "EndOffset": 16  
  },  
  {  
    "Score": 0.9934418201446533,  
    "Type": "ORGANIZATION",  
    "Text": "AnyCompany Financial Services",  
    "BeginOffset": 22,  
    "EndOffset": 51  
  },  
]
```



Detecting key phrases

detect-key-phrases

batch-detect-key-phrases

start-key-phrases-detection-job



Detecting PII entities

`detect-pii-entities`

`describe-pii-entities-detection-job`

`start-pii-entities-detection-job`

`contains-pii-entities`

Detecting PII entities: Results

```
{
  "Text": "Hello John, your address is 123
Test St",
  "LanguageCode": "en"
}
```

```
"Entities": [
  {
    "Score": 0.9999914169311523,
    "Type": "NAME",
    "BeginOffset": 6,
    "EndOffset": 10
  },
  {
    "Score": 0.9999768733978271,
    "Type": "ADDRESS",
    "BeginOffset": 28,
    "EndOffset": 39
  }
]
```

Detecting sentiment

`detect-sentiment`

`batch-detect-sentiment`

`start-sentiment-detection-job`



Detecting sentiment: Results

```
{  
  "Text": "I loved shopping here",  
  "LanguageCode": "en"  
}
```

```
"Sentiment": {  
  "Sentiment": "POSITIVE",  
  "SentimentScore": {  
    "Positive": 0.99887,  
    "Negative": 0.00006,  
    "Neutral": 0.00085,  
    "Mixed": 0.00020  
  }  
}
```


Custom classification

create-document-classifier



Documents

Label	Document
Comedy	I to the world am like a drop of water...
Comedy	Small cheer and great welcome makes..
Tragedy	The fault, dear Brutus, is not in our..



Model



Custom entity recognition

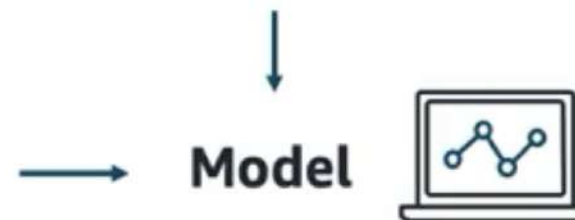
create-entity-recognizer

EntityList

Label	Type
Martha Rivera	ENGINEER
John Doe	ENGINEER
Saanvi Sarkar	MANAGER

Documents

Martha Rivera is an engineer in the high tech industry. John Doe has been an engineer for 14 years. Our latest new employee, Saanvi Sarkar, has been a manager in the industry for 4 years.



Custom models

create-entity-recognizer
create-document-classifier

