

#### 1. What is Rekognizing patterns?

Amazon Rekognition makes it easy to add image and video analysis to your applications. You just provide an image or video to the Amazon Rekognition API, and the service can identify objects, people, text, scenes, and activities. It can detect any inappropriate content as well. Amazon Rekognition also provides highly accurate facial analysis, face comparison, and face search capabilities. You can detect, analyze, and compare faces for a wide variety of use cases, including user verification, cataloging, people counting, and public safety.

2. How can we upload image using boto3?

#### **Initialize S3 Client**

```
s3 = boto3.client(
  's3', region_name='us-east-1',
  aws_access_key_id=AWS_KEY_ID, aws_secret_access_key=AWS_SECRET
)
```

#### Upload a file

```
s3.upload_file(
Filename='report.jpg', Key='report.jpg',
Bucket='datacamp-img')
```



## **Object detection**

#### **INITIATE THE CLIENT**

```
rekog = boto3.client(
  'rekognition',
  region_name='us-east-1',
  aws_access_key_id=AWS_KEY_ID,
  aws_secret_access_key=AWS_SECRET)
```

#### **DETECT!**

### **Text detection**

#### PERFORM DETECTION



# Comprehending text Translating text

#### Initialize client

```
translate = boto3.client('translate',
    region_name='us-east-1',
    aws_access_key_id=AWS_KEY_ID, aws_secret_access_key=AWS_SECRET)
```

#### **Translate text**

```
response = translate.translate_text(
   Text='Hello, how are you?',
   SourceLanguageCode='auto',
   TargetLanguageCode='es')
```

#### **Detecting language**

#### **Initialize boto3 Comprehend client**

```
comprehend = boto3.client('comprehend',
    region_name='us-east-1',
    aws_access_key_id=AWS_KEY_ID, aws_secret_access_key=AWS_SECRET)
```

#### **Detect dominant language**

```
response = comprehend.detect_dominant_language(
Text="Hay basura por todas partes a lo largo de la carretera.")
```

# **Understanding sentiment**

#### **Detect text sentiment**

```
response = comprehend.detect_sentiment(
  Text="DataCamp students are amazing.",
  LanguageCode='en')
```



# **Understanding sentiment**

```
{'Sentiment': 'POSITIVE',
    'SentimentScore': {'Positive': 0.9827685952186584
    'Negative': 0.0006051281234249473,
    'Neutral': 0.012124153785407543,
    'Mixed': 0.004502176772803068},
```