

Amazon Rekognition

Amazon Rekognition is a fully managed, deep-learning-based image recognition service. The service can detect things, or labels, in an image.



Amazon Rekognition

Image API operations

- CompareFaces
- DetectFaces
- DetectLabels
- DetectModerationLabels
- DetectProtectiveEquipment
- DetectText
- RecognizeCelebrities



DetectFaces



```
"FaceDetails": [  
  {  
    "BoundingBox": ...  
    "AgeRange": ...  
    "Smile": ...  
    "Gender": ...  
    "Beard": ...  
    "EyesOpen": ...  
    "MouthOpen": ...  
    "Emotions": [ CALM, ... ]  
    "Landmarks": [ eyeLeft, eyeRight, .. ]  
    ...  
  }  
]
```



DetectLabels



```
"Labels": [  
  {  
    "Name": "Bridge",  
    "Confidence": 99.77983856201172,  
    "Instances": ...,  
    "Parents": ...  
  },  
  {  
    "Name": "Building",  
    ...  
  },  
  {  
    "Name": "Architecture",  
    ...  
  },  
]
```

DetectModerationLabels



```
{  
  "ModerationLabels": [  
    {  
      "Confidence": 96.25340270996094,  
      "Name": "Alcoholic Beverages",  
      "ParentName": "Alcohol"  
    },  
    {  
      "Confidence": 96.25340270996094,  
      "Name": "Alcohol",  
      "ParentName": ""  
    }  
  ],  
  "ModerationModelVersion": "5.0"  
}
```

Video API operations

- GetCelebrityRecognition
- GetContentModeration
- GetFaceDetection
- GetFaceSearch
- GetLabelDetection
- GetPersonTracking
- GetSegmentDetection
- GetTextDetection



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There are video-specific APIs, such as segment detection,

IndexFaces



ImageId: 5aab94af...
FaceId: e8a99ba0...



ImageId: 5aab94af...
FaceId: 7ec5338e...



ImageId: b88aaa3a...
FaceId: 56d0b44c...



ImageId: b88aaa3a...
FaceId: b88aaa3a...



ImageId: b88aaa3a...
FaceId: 1ce66fb7...

SearchFaces and SearchFacesByImage



SearchFaces CollectionId: techs FacelId: e8a99ba0...



SearchFacesByImage CollectionId: techs Image: 0xfac...



ImageId: b88aaa3a...
FacelId: 1ce66fb7...



ImageId: 5aab94af...
FacelId: e8a99ba0...



ImageId: b88aaa3a...
FacelId: 1ce66fb7...



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we can search by face ID.



CreateDataset and DetectCustomLabels

