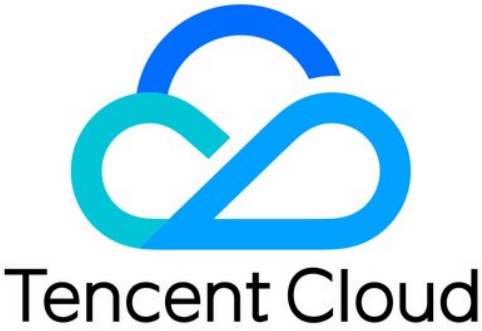
Image Moderation System

Product Introduction

Product Documentation



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Product Introduction
Overview

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Challenges in Content Moderation

With the rapid development of the internet, smart devices, and various emerging businesses, internet data has been growing explosively and is subject to diverse uncontrollable risks, such as pornographic images, terrorism content, and spam ads.
With ever heightened regulation, content involving violence, blood, porn, gambling, and drug use has become an area of focus, which makes content moderation an urgent need of short video, news, and live streaming platforms.
As common violent, ironic, and suggestive content in images are difficult and costly to recognize and moderate through traditional means, enterprises face new technical challenges in content operations.

IMS Overview

Tencent Cloud Image Moderation System (IMS) is a security service with cutting-edge image recognition algorithms, which are trained with massive amounts of data in non-compliant images to create a model for recognizing the images uploaded by users. It delivers a high recognition accuracy and recall rate, meets the needs for content moderation in multiple dimensions, and has been constantly improved in its recognition standards and capabilities in response to the changing regulatory requirements.
It can detect various scenes in images and accurately recognize content that may be offensive, unsafe, or inappropriate, which effectively reduces the risks of non-compliant content and moderation costs.
It can accurately recognize content that involves porn, terrorism, and violence and allows you to configure an image blocklist to filter images of custom violation types. The recognition results include three categories: normal, suspected, and non-compliant. We recommend you allow normal images, manually moderate suspected images, and block non-compliant images, so as to reduce the labor costs and increase the moderation efficiency.
It provides services and capabilities in the form of open APIs. You can call them to get moderation results and efficiently create a smart business system to increase the efficiency of business operations.

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Features

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Porn Recognition

IMS recognizes and filters images involving multiple types of porn, including nudity, obscure porn, comic porn, pornographic objects, and sexual behavior.

Terrorism Information Recognition

IMS recognizes various types of figures, objects (e.g., guns, knives, and signs), and scenes (e.g., riots and war) suspected of violence or terrorism.

Ad Recognition

IMS recognizes and filters various forms of ad images, such as online ads, product images, and prostitution ads.

Custom Content Recognition

IMS allows you to customize image libraries, including blocklist and allowlist. You don't need to train a machine recognition model, as the system automatically matches the content to be recognized with the samples in the custom libraries for targeted content recognition.

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Strengths

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High Reliability

IMS delivers a service availability of at least 99.9%. Its professional team provides 24/7 technical support.
It responds to requests in milliseconds, returns results in seconds, and delivers an ultra low latency, which helps your business grow faster.
It supports multi-cluster deployment with dynamic scalability and can sustain over 10,000 concurrent requests per second, so you don't need to worry about performance loss.

High Flexibility

IMS can be connected to in three steps by directly calling service APIs, with no need to install any script files.
It allows you to customize libraries and moderation policies so as to flexibly use the IMS service based on your specific business needs.
It can be used by both Tencent Cloud and non-Tencent Cloud customers without incurring any business migration costs.
It supports public cloud services and private cloud deployment to address all content moderation problems, which saves time, money, and worry.

High Cost Performance

IMS is postpaid and billed by the call volume.
It provides a comprehensive recognition model system created by integrating dozens of algorithms and technologies, which avoid false negatives produced by a single model and deliver a recognition accuracy of above 99.99%.

High Confidence

IMS offers models created based on Tencent Cloud's 22 years of experience in product operations and tens of thousands of samples of non-compliant images, which cover hundreds of violation types in different industries.

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Use Cases

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Interactive Live Streaming

IMS provides Tencent Cloud live streaming and video customers with a one-stop, low-latency solution that features content frame capturing, recognition, and storage, and automatic moderation. It can monitor the content in all live rooms in real time to identify suspicious rooms and trigger alarms.
If you use Tencent Cloud video or live streaming solutions, you can quickly enable IMS to prevent the dissemination of non-compliant content and reduce the risks to platform operations.

Content Platform

IMS supports easy connection to various image resource libraries for one-stop automatic moderation.
It can recognize and moderate large images, deliver a 99.9% availability, and provide 24/7 online technical support, guaranteeing the security of your resources.

Communities and Forums

IMS is widely used for various platforms such as blogs and forums with original user-generated content, including personal homepages, comments, posts, replies, and messages. It can quickly recognize offensive, unsafe, and harmful content in order to guarantee the platforms' business interests and compliance and reduce their user operations costs.

Ecommerce

IMS can recognize all scenes in images on shopping platforms. It intelligently moderates the images uploaded by merchants and users, efficiently recognizes non-compliant content, and triggers alarms. This prevents them from posting images involving porn, violence, terrorism, or sensitive content and reduces the manual moderation costs and business violation risks.
While guaranteeing the normal sales of compliant products, refined multi-level tags and highly customized moderation policies can promptly detect hidden non-compliant and harmful information in various scenarios to safeguard the normal businesses.

Instant Messaging

Based on technologically advanced recognition models, IMS can accurately recognize various types of content that may be offensive, unsafe, or inappropriate hidden in messages and their diverse variants. Then, it can promptly return the moderation results. For instant messaging scenarios, it effectively prevents harassment by malicious users, thus blocking the risks of scams and improving the user experience.

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