# Partnering for a safer Internet: The role of APIs

We build and share Application Programming Interfaces (APIs) to help make the Internet safer. They protect users and other organisations from bad actors by detecting and blocking online threats.



# BUILD

We create safety APIs to protect across three key areas. Some examples of these APIs are:

# Child Safety

- Content Safety API
- CSAI Match API
- Hash Matching API

#### Security

- Safe Browsing API
- Project Shield API
- VirusTotal API

#### **Information Quality**

- Perspective API
- Vision API
- FactCheck API
- Civics Information API
- Text Moderation



# SCALE

# To scale our impact, we share our safety APIs with partners:

### 46M

LIMIT

In 2022, Cloud Armor API blocked one of the largest Layer 7 DDoS attacks in history, at 46M requests per second.

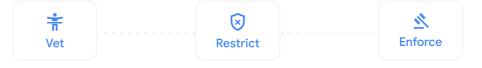
# 2B

Perspective API is called by 1,000+ partners almost 2B times a day.

#### **4B**

The Child Safety Toolkit (Content Safety API + CSAI Match API) processed 4B+ images and videos in the last 30 days.

To ensure that only trusted partners have access to our APIs and that they are used in a compliant and safe manner, we take three critical steps:



Empowering our trusted partners with safety APIs allows us to work together and create a safer internet for everyone. As such, access to our safety APIs is limited to carefully vetted partners. We restrict unauthorised usage of these tools and strictly enforce our terms of service policies.

# Google's Safety APIs



# **Child Safety APIs**

#### **Child Safety Toolkit**

#### **Content Safety**

Google's proprietary model helps partners classify and prioritise billions of child sexual abuse material images. It uses ML classifiers to help identify neverbefore-seen CSAM imagery for fast review, removal and reporting.

# CSAI Match

YouTube's proprietary technology (and the first technology to use hashmatching) to identify child sexual abuse imagery (CSAI) videos and systematically flag for partners to review, confirm, report and act upon.

# Hash Matching

We provide Google's Hash Matching API to NCMEC to help them prioritise and review CyberTipline reports more efficiently, allowing them to hone in on those reports involving children who need immediate help.



# Security APIs

# **Cloud Armor**

Protects websites, services and APIs against advanced, targeted and automated distributed denial of service (DDoS) attacks, which censor information.

# Safe Browsing

Our Safe Browsing API allows client applications to check URLs against our constantly updated lists of unsafe web resources. This tool protects five billion devices a day by warning users against sites that host malware or unwanted software.

# Google's WAAP Solution

#### reCAPTCHA

Defends websites from fraudulent activity, spam and other abuses. reCAPTCHA Enterprise uses an adaptive risk analysis engine to keep automated software from engaging in abusive activities.

#### VirusTotal

Allows developers to submit files or URLs for analysis and receive a report on whether or not they are infected with malware.

## Apigee

Google Cloud's full life cycle API management platform enables businesses to design, secure, deploy, monitor and scale APIs.

# Information Quality APIs



#### Perspective

Open-source API that uses machine learning to identify 'toxic' comments. Used not only to facilitate interactions between humans, but also to help promote high-quality human interactions with large language models and generative AI.

# **Civic Information**

The Civic Information API allows developers to build applications that let citizens and voters in the US know about their political representation, ballot information and voting locations. During supported elections, voters can look up their polling place, early vote and dropbox locations, and candidate information.

# Vision

Allows developers to easily integrate vision detection features within their applications. This includes image labelling, face and landmark detection, optical character recognition (OCR) and tagging of explicit content.

## Text Moderation

Google's Text Moderation tool, available through the Cloud Natural Language API, helps organisations scan for sensitive or harmful content. This tool is able to identify a wide range of harmful content, including hate speech, bullying and sexual harassment.

# FactCheck

Aims to facilitate the work of fact checkers, journalists and researchers in discovering what has and hasn't been debunked globally. With this tool, users can search claims from among 300K fact checks from reputable publishers.

Every day you're safer with Google We invest in building and sharing APIs that detect and block online threats to ensure that **every day you're safer with Google**. Visit our <u>Safety Centre</u> to learn more about how we keep more people safer online than anyone else.