



CVE-2021-41224

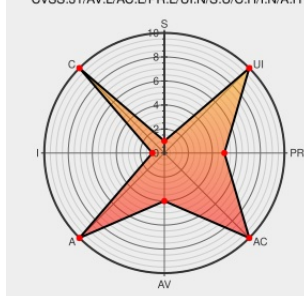
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CVE-2021-41224 - advisory for GHSA-rg3m-hqc5-344v

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

CVSS:31/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:N/A:H



Certain versions of [Tensorflow](#) from [Google](#) contain the following vulnerability:

TensorFlow is an open source platform for machine learning. In affected versions the implementation of `SparseFillEmptyRows` can be made to trigger a heap OOB access. This occurs whenever the size of `indices` does not match the size of `values`. The fix will be included in TensorFlow 2.7.0. We will also cherry-pick this commit on TensorFlow 2.6.1, TensorFlow 2.5.2, and TensorFlow 2.4.4, as these are also affected and still in supported range.

CVE-2021-41224 has been assigned by [security-advisories@github.com](#) to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: [tensorflow](#) - tensorflow version $\geq 2.6.0$, $< 2.6.1$

Affected Vendor/Software: [tensorflow](#) - tensorflow version $\geq 2.5.0$, $< 2.5.2$

Affected Vendor/Software: [tensorflow](#) - tensorflow version $< 2.4.4$

CVSS3 Score: **7.1 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
LOCAL	LOW	LOW	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	HIGH	NONE	HIGH

CVSS2 Score: **3.6 - LOW**

Access Vector	Access Complexity	Authentication
LOCAL	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact

CVE References

Description	Tags	Link
Make SparseFillEmptyRows validate that the length of `values` must be... tensorflow/tensorflow@67bfd9f · GitHub	github.com text/html	MISC github.com/tensorflow/tensorflow/commit/67bfd9feeecfb3c61d80f0e46d89c170fbee682b
`SparseFillEmptyRows` heap OOB · Advisory · tensorflow/tensorflow · GitHub	github.com text/html	CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-rg3m-hqc5-344v

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Related QID Numbers

[980189](#) Python (pip) Security Update for tensorflow-gpu (GHSA-rg3m-hqc5-344v)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Google	Tensorflow	All	All	All	All
cpe:2.3:a:google:tensorflow:*:*:*:*:*:						

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2021-41224 : TensorFlow is an open source platform for machine learning. In affected versions the implementatio... twitter.com/i/web/status/1...	2021-11-05 20:26:21
@LinInfoSec	Tensorflow - CVE-2021-41224: github.com/tensorflow/ten...	2021-11-05 23:07:35

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