

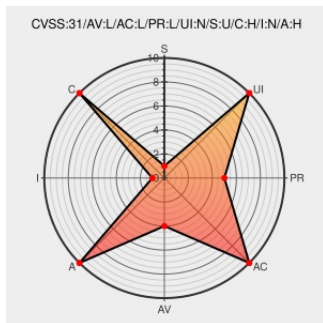


CVE-2021-41226

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CVE-2021-41226 - advisory for GHSA-374m-jm66-3vj8

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

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 `SparseBinCount` is vulnerable to a heap OOB access. This is because of missing validation between the elements of the `values` argument and the shape of the sparse output. 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-2021-41226 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

PARTIAL

NONE

PARTIAL

CVE References

Description	Tags	Link
Prevent out-of-bound accesses in SparseBincount. · tensorflow/tensorflow@f410212 · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/commit/f410212e373eb2aec4c9e60bf3702eba99a38aba
Heap OOB in `SparseBinCount` · Advisory · tensorflow/tensorflow · GitHub	github.com text/html	 CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-374m-jm66-3vj8

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Related QID Numbers

980191 Python (pip) Security Update for tensorflow-gpu (GHSA-374m-jm66-3vj8)

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-2021-41226 : TensorFlow is an open source platform for machine learning. In affected versions the implementatio... twitter.com/i/web/status/1...	2021-11-05 20:27:48
 @LinInfoSec	Tensorflow - CVE-2021-41226: github.com/tensorflow/ten...	2021-11-05 23:07:35

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