



CVE-2022-21735

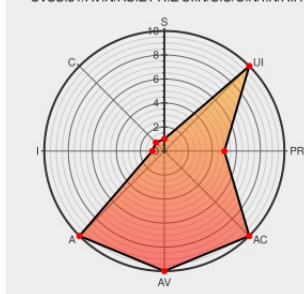
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CVE-2022-21735 - advisory for GHSA-87v6-crgm-2gjf

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

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



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

Tensorflow is an Open Source Machine Learning Framework. The implementation of `FractionalMaxPool` can be made to crash a TensorFlow process via a division by 0. The fix will be included in TensorFlow 2.8.0. We will also cherry-pick this commit on TensorFlow 2.7.1, TensorFlow 2.6.3, and TensorFlow 2.5.3, as these are also

affected and still in supported range.

CVE-2022-21735 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as **MEDIUM** severity.

CVSS3 Score: **6.5 - MEDIUM**

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

CVSS2 Score: **4 - MEDIUM**

Access Vector	Access Complexity	Authentication
NETWORK	LOW	SINGLE
Confidentiality Impact	Integrity Impact	Availability Impact
NONE	NONE	PARTIAL

CVE References

Description	Tags	Link
Fix potential divide by zero error when executing	github.com	MISC github.com/tensorflow/tensorflow/commit/ba4e8ac4dc2991e350d5c

FractionalMaxPool, ... · tensorflow/tensorflow@ba4e8ac · GitHub

text/html

Division by zero in `FractionalMaxPool` · Advisory · tensorflow/tensorflow · GitHub

github.com

CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-87

text/html

tensorflow/fractional_max_pool_op.cc at 5100e359aef5c8021f2e71c7b986420b85ce7b3d · tensorflow/tensorflow · GitHub

github.com

MISC

github.com/tensorflow/tensorflow/blob/5100e359aef5c8021f2e71c7b986420L192

text/html

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Google	Tensorflow	2.7.0	All	All	All
Application	Google	Tensorflow	All	All	All	All
Application	Google	Tensorflow	All	All	All	All

cpe:2.3:a:google:tensorflow:2.7.0:*:*:*:*:*:

cpe:2.3:a:google:tensorflow:*:*:*:*:*:

cpe:2.3:a:google:tensorflow:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2022-21735 : Tensorflow is an Open Source Machine Learning Framework. The implementation of `FractionalMaxPool` ... twitter.com/i/web/status/1...	2022-02-03 12:57:57
/r/netcve	CVE-2022-21735	2022-02-03 13:38:39

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