

Resource Summary Report

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tensorflow

RRID:SCR_016345

Type: Tool

Proper Citation

tensorflow (RRID:SCR_016345)

Resource Information

URL: <https://www.tensorflow.org/>

Proper Citation: tensorflow (RRID:SCR_016345)

Description: Software as an open source machine learning framework for everyone. Library for high performance numerical computation. Allows deployment of computation across a variety of platforms (CPUs, GPUs, TPUs), and from desktops to clusters of servers to mobile and edge devices.

Resource Type: software library, software resource, software toolkit

Keywords: high, performance, numerical, computation, machine, learning, framework, everyone, bio.tools

Funding: Google

Availability: Free, Available for download, Freely available

Resource Name: tensorflow

Resource ID: SCR_016345

Alternate IDs: biotools:tensorflow

Alternate URLs: <https://github.com/tensorflow/tensorflow>, <https://bio.tools/tensorflow>, <https://sources.debian.org/src/libtensorflow-framework2/>

License: Apache License

Record Creation Time: 20220129T080330+0000

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Ratings and Alerts

No rating or validation information has been found for tensorflow.

No alerts have been found for tensorflow.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 581 mentions in open access literature.

Listed below are recent publications. The full list is available at [nidm-terms](#) .

Mathewlynn S, et al. (2026) First-trimester Placental Ultrasound (FirstPLUS) study: prediction of fetal growth restriction using OxNNet-derived first-trimester placental volume. *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology*, 67(1), 49.

He S, et al. (2025) Deep learning algorithms from histopathological images stratify molecular subtypes for leiomyosarcoma: a proof-and-concept diagnostic study. *International journal of surgery (London, England)*, 111(9), 5959.

Zimmerman CA, et al. (2025) A neural mechanism for learning from delayed postingestive feedback. *Nature*, 642(8068), 700.

I??l Ç, et al. (2025) Virtual Gram staining of label-free bacteria using dark-field microscopy and deep learning. *Science advances*, 11(2), eads2757.

Zhou Y, et al. (2025) Multi-scale channel attention U-Net: a novel framework for automated gallbladder segmentation in medical imaging. *Frontiers in oncology*, 15, 1528654.

Huang Z, et al. (2025) A Tc1- and Th1-T-lymphocyte-rich tumor microenvironment is a hallmark of MSI colorectal cancer. *The Journal of pathology*, 266(2), 192.

Melega G, et al. (2025) The semantic structure of events consistently influences episodic memory recall over time in young and older adults. *Scientific reports*, 15(1), 41987.

Al-Hakeem HFH, et al. (2025) The role of statistics in advancing nitric oxide research in plant biology: from data analysis to mechanistic insights. *Frontiers in plant science*, 16, 1597030.

Zhang Z, et al. (2025) Application of deep reinforcement learning in parameter optimization and refinement of turbulence models. *Scientific reports*, 15(1), 25236.

Tian S, et al. (2025) UNISOM: Unified Somatic Calling and Machine Learning-based Classification Enhance the Discovery of CHIP. *Genomics, proteomics & bioinformatics*, 23(2).

Qu H, et al. (2025) Radiomic study of common sellar region lesions differentiation in magnetic resonance imaging based on multi-classification machine learning model. BMC medical imaging, 25(1), 147.

Stojanov R, et al. (2025) Applicability Assessment of Technologies for Predictive and Prescriptive Analytics of Nephrology Big Data. Proteomics, 25(11-12), e202400135.

Kazakou NL, et al. (2025) Metformin alters mitochondria-related metabolism and enhances human oligodendrocyte function. Nature communications, 16(1), 8126.

Cheng CCY, et al. (2025) Multi-omic analysis of hepatocellular carcinoma reveals aberrant cis-regulatory changes and dysregulated retrotransposons with prognostic potential. Communications biology, 8(1), 1792.

Glynn E, et al. (2025) Toward equitable major histocompatibility complex binding predictions. Proceedings of the National Academy of Sciences of the United States of America, 122(8), e2405106122.

Aghajanian S, et al. (2025) Longitudinal structural MRI-based deep learning and radiomics features for predicting Alzheimer's disease progression. Alzheimer's research & therapy, 17(1), 182.

Matsumoto R, et al. (2025) Prediction of the hypothalamus-pituitary organoid formation using machine learning. Cell reports methods, 5(8), 101119.

Lee D, et al. (2025) Machine learning models for pancreatic cancer diagnosis based on microbiome markers from serum extracellular vesicles. Scientific reports, 15(1), 10995.

Cai L, et al. (2025) The impact of updated imaging software on the performance of machine learning models for breast cancer diagnosis: a multi-center, retrospective study. Archives of gynecology and obstetrics, 312(1), 139.

Florentino AL, et al. (2025) A dataset for environmental sound recognition in embedded systems for autonomous vehicles. Scientific data, 12(1), 1148.