

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/>

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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 [SPARC SAWG](#) .

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.

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.

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

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.

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.

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.

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

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.

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

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.

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.

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.

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.

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

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.