Resource Summary Report

Generated by <u>dkNET</u> on Apr 27, 2025

PyTorch

RRID:SCR_018536 Type: Tool

Proper Citation

PyTorch (RRID:SCR_018536)

Resource Information

URL: https://pytorch.org/

Proper Citation: PyTorch (RRID:SCR_018536)

Description: Open source machine learning library based on Torch library, used for applications such as computer vision and natural language processing. Software Python package that provides tensor computation with strong GPU acceleration and deep neural networks built on tape-based autograd system.

Resource Type: software toolkit, software resource

Keywords: Computer vision, natural language processing, Python, tensor computation, neural network

Funding:

Availability: Free, Available for download, Freely available

Resource Name: PyTorch

Resource ID: SCR_018536

Alternate URLs: https://github.com/pytorch/pytorch

License: Modified BSD license

Record Creation Time: 20220129T080340+0000

Record Last Update: 20250426T060720+0000

Ratings and Alerts

No rating or validation information has been found for PyTorch.

No alerts have been found for PyTorch.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 2086 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>dkNET</u>.

Yang X, et al. (2025) Multi-task aquatic toxicity prediction model based on multi-level features fusion. Journal of advanced research, 68, 477.

Jang A, et al. (2025) Physics-guided self-supervised learning: Demonstration for generalized RF pulse design. Magnetic resonance in medicine, 93(2), 657.

Jang W, et al. (2025) Molecular Classification of Breast Cancer Using Weakly Supervised Learning. Cancer research and treatment, 57(1), 116.

He H, et al. (2025) What radio waves tell us about sleep! Sleep, 48(1).

Chaurasia AK, et al. (2025) A generalised computer vision model for improved glaucoma screening using fundus images. Eye (London, England), 39(1), 109.

Zhang J, et al. (2025) Measuring Metabolic Changes in Cancer Cells Using Two-Photon Fluorescence Lifetime Imaging Microscopy and Machine-Learning Analysis. Journal of biophotonics, 18(1), e202400426.

Pang W, et al. (2025) Label credibility correction based on cell morphological differences for cervical cells classification. Scientific reports, 15(1), 2.

Ramos LT, et al. (2025) Leveraging U-Net and selective feature extraction for land cover classification using remote sensing imagery. Scientific reports, 15(1), 784.

Wang J, et al. (2025) A small object detection model in aerial images based on CPDD-YOLOv8. Scientific reports, 15(1), 770.

Daoud A, et al. (2025) The role of chromatin state in intron retention: A case study in leveraging large scale deep learning models. PLoS computational biology, 21(1), e1012755.

Liu W, et al. (2025) YOLO-STOD: an industrial conveyor belt tear detection model based on

Yolov5 algorithm. Scientific reports, 15(1), 1659.

Shino Y, et al. (2025) Improving Molecular Design with Direct Inverse Analysis of QSAR/QSPR Model. Molecular informatics, 44(1), e202400227.

Yu Z, et al. (2025) Accurate Spatial Heterogeneity Dissection and Gene Regulation Interpretation for Spatial Transcriptomics using Dual Graph Contrastive Learning. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(3), e2410081.

Ziegler J, et al. (2025) A deep multiple instance learning framework improves microsatellite instability detection from tumor next generation sequencing. Nature communications, 16(1), 136.

Ramani RS, et al. (2025) Convolutional neural networks for accurate real-time diagnosis of oral epithelial dysplasia and oral squamous cell carcinoma using high-resolution in vivo confocal microscopy. Scientific reports, 15(1), 2555.

Deng M, et al. (2025) Predicting drug and target interaction with dilated reparameterize convolution. Scientific reports, 15(1), 2579.

Wu C, et al. (2025) Towards evaluating and building versatile large language models for medicine. NPJ digital medicine, 8(1), 58.

Ingle R, et al. (2025) Deep learning driven silicon wafer defect segmentation and classification. MethodsX, 14, 103158.

Hu Z, et al. (2025) Evaluation of the practical application of the category-imbalanced myeloid cell classification model. PloS one, 20(1), e0313277.

Tian F, et al. (2025) Polarimetric image recovery method with domain-adversarial learning for underwater imaging. Scientific reports, 15(1), 3922.