

Resource Summary Report

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imblearn

RRID:SCR_021698

Type: Tool

Proper Citation

imblearn (RRID:SCR_021698)

Resource Information

URL: <https://imbalanced-learn.org/stable/>

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Description: Software Python package to tackle curse of imbalanced datasets in machine learning. Offers number of re-sampling techniques commonly used in datasets showing strong between class imbalance.

Synonyms: Imbalanced-learn

Resource Type: software resource, software toolkit

Keywords: imbalanced datasets, class imbalance

Availability: Free, Available for download, Freely available

Resource Name: imblearn

Resource ID: SCR_021698

Alternate URLs: <https://github.com/scikit-learn-contrib/imbalanced-learn>

License: MIT

Record Creation Time: 20220129T080357+0000

Record Last Update: 20260808T190527+0000

Ratings and Alerts

No rating or validation information has been found for imblearn.

No alerts have been found for imblearn.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 44 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Liu Y, et al. (2026) A retrospective cohort study identifies differential diabetes progression among Han, Dai, and Yi groups in Yunnan. *iScience*, 29(3), 115125.

Yeghaian M, et al. (2026) Machine learning-based treatment outcome prediction in head and neck cancer using integrated noninvasive diagnostics. *International journal of computer assisted radiology and surgery*, 21(3), 483.

Zakariaee SS, et al. (2026) Prognostic Significance of Computed Tomography Severity Score for Machine Learning Prediction of Intensive Care Unit Admission in COVID-19 Patients. *Thoracic research and practice*, 27(3), 132.

Dai H, et al. (2026) GLP-1 receptor agonists and acute diabetes complications in adults with type 1 diabetes. *iScience*, 29(5), 115700.

Luo S, et al. (2026) Protocol for an interpretable self-attention artificial neural network framework to predict cancer risk in oral potentially malignant disorders. *STAR protocols*, 7(2), 104490.

Kong L, et al. (2025) Enhancing cardiocography classification via ensemble learning and threshold optimization. *Scientific reports*, 15(1), 38528.

Yu S, et al. (2025) Identification of a 10-species microbial signature of inflammatory bowel disease by machine learning and external validation. *Cell regeneration (London, England)*, 14(1), 32.

Lages Dos Santos A, et al. (2025) Comparative performance of twelve machine learning models in predicting COVID-19 mortality risk in children: a population-based retrospective cohort study in Brazil. *PeerJ. Computer science*, 11, e2916.

AlShehhi A, et al. (2025) Comparison of machine learning models for mucopolysaccharidosis early diagnosis using UAE medical records. *Scientific reports*, 15(1), 28813.

An ME, et al. (2025) Predicting Metabolic Dysfunction-Associated Steatotic Liver Disease using Machine Learning Methods. *ArXiv*.

Li JW, et al. (2025) Enhancing malignant transformation predictions in oral potentially malignant disorders: A novel machine learning framework using real-world data. *iScience*, 28(3), 112062.

Domenico D, et al. (2025) Enabling whole genome sequencing analysis from FFPE specimens in clinical oncology. *Nature communications*, 16(1), 10649.

Demircio?lu A, et al. (2024) The effect of data resampling methods in radiomics. *Scientific reports*, 14(1), 2858.

Liao KM, et al. (2024) Machine learning approaches for practical predicting outpatient near-future AECOPD based on nationwide electronic medical records. *iScience*, 27(4), 109542.

Gonçalves-Reis M, et al. (2024) Analytical validation and algorithm improvement of HepatoPredict kit to assess hepatocellular carcinoma prognosis before a liver transplantation. *Practical laboratory medicine*, 39, e00365.

Alie MS, et al. (2024) Machine learning algorithms for predicting COVID-19 mortality in Ethiopia. *BMC public health*, 24(1), 1728.

Yasumizu Y, et al. (2024) Single-cell transcriptome landscape of circulating CD4+ T cell populations in autoimmune diseases. *Cell genomics*, 4(2), 100473.

Fan X, et al. (2024) Prediction of outpatient rehabilitation patient preferences and optimization of graded diagnosis and treatment based on XGBoost machine learning algorithm. *Frontiers in artificial intelligence*, 7, 1473837.

Ma Q, et al. (2024) Machine Learning Reveals Impacts of Smoking on Gene Profiles of Different Cell Types in Lung. *Life (Basel, Switzerland)*, 14(4).

Flanagan SV, et al. (2024) Application of machine learning techniques to profile smoking behavior of adolescent girls in Ghana. *Gates open research*, 8, 2.