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: 20260821T194203+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 cardiotocography 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.

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.

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.

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).

Falcao IWS, et al. (2024) Model for predicting drug resistance based on the clinical profile of tuberculosis patients using machine learning techniques. PeerJ. Computer science, 10, e2246.