

Resource Summary Report

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Classification And Regression Training

RRID:SCR_022524

Type: Tool

Proper Citation

Classification And Regression Training (RRID:SCR_022524)

Resource Information

URL: <https://github.com/topepo/caret>

Proper Citation: Classification And Regression Training (RRID:SCR_022524)

Description: Software R package that contains functions for training and plotting classification and regression models. Includes methods for pre-processing training data, calculating variable importance, and model visualizations.

Abbreviations: caret

Synonyms: Classification And REgression Training

Resource Type: software resource, software toolkit

Defining Citation: [DOI:10.18637/jss.v028.i05](https://doi.org/10.18637/jss.v028.i05)

Keywords: training and plotting classification and regression models, pre-processing training data, calculating variable importance, model visualizations.

Availability: Free, Available for download, Freely available

Resource Name: Classification And Regression Training

Resource ID: SCR_022524

Alternate URLs: <https://cran.r-project.org/web/packages/caret/>

License: GPL v3

Record Creation Time: 20220628T050153+0000

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Ratings and Alerts

No rating or validation information has been found for Classification And Regression Training.

No alerts have been found for Classification And Regression Training.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 54 mentions in open access literature.

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

Pandeyarajan V, et al. (2026) Loss of fungal sensing exacerbates liver injury in a murine model of MASLD. JCI insight, 11(8).

Guo X, et al. (2026) Diagnostic Model for Obesity and Type 2 Diabetes Mellitus Based on Feature Selection from Fatty Acids, Amino Acids, and Clinical Characteristics. Diabetes, metabolic syndrome and obesity : targets and therapy, 19, 583656.

Nguyen DT, et al. (2026) QTL mapping of oat crown rust resistance in Australian fields and identification of a seedling resistance locus in oat line GS7. TAG. Theoretical and applied genetics. Theoretische und angewandte Genetik, 139(1), 41.

Wu Q, et al. (2026) Refined phenotyping of vaccine responses reveals transcriptomic determinants of neutralizing antibody heterogeneity. NPJ vaccines, 11(1).

Thursby SJ, et al. (2026) Epigenetic Instability-Based Metrics in Cell-Free DNA for Early Cancer Detection. Clinical cancer research : an official journal of the American Association for Cancer Research, 32(8), 1528.

Qiu C, et al. (2026) A metabolomics-driven machine learning model for osteoporosis risk prediction. JBMR plus, 10(5), zia042.

Olweny G, et al. (2025) Protocol for identifying Mycobacterium tuberculosis infection status through airway microbiome profiling. STAR protocols, 6(1), 103574.

Yuan S, et al. (2025) Cross-population GWAS and proteomics improve risk prediction and reveal mechanisms in atrial fibrillation. Nature communications, 16(1), 6426.

Huang L, et al. (2025) Development and validation of a machine learning-based prediction model for intraoperative hypothermia in Chinese patients undergoing gastrointestinal surgery. Perioperative medicine (London, England), 14(1), 99.

Li J, et al. (2025) Transcriptomics-based identification of lysine crotonylation-related biomarkers in pre-eclampsia. BMC pregnancy and childbirth, 25(1), 1001.

Mörseburg A, et al. (2025) Genetic determinants of proteomic aging. npj aging, 11(1), 30.

Elias R, et al. (2025) Clear-Cell Renal Cell Carcinoma Molecular Subtypes Differ by African and European Genetic Similarity. *Cancer research communications*, 5(5), 743.

Gan Y, et al. (2025) Exploration of Epigenetic Mechanisms and Biomarkers Among Patients with Very-Late-Onset Schizophrenia-Like Psychosis. *Neuropsychiatric disease and treatment*, 21, 927.

Zhou J, et al. (2025) Construction of enhanced MRI-based radiomics models using machine learning algorithms for non-invasive prediction of IL7R expression in high-grade gliomas and its prognostic value in clinical practice. *Journal of translational medicine*, 23(1), 383.

Duan H, et al. (2025) FAR1 as a ferroptosis-related biomarker and potential therapeutic target in acute kidney injury: integrated bioinformatics and experimental validation. *Renal failure*, 47(1), 2547260.

Liu Q, et al. (2025) Restoration of intestinal secondary bile acid synthesis: A potential approach to improve pancreatic β cell function in type 1 diabetes. *Cell reports. Medicine*, 6(5), 102130.

Li H, et al. (2025) Interpretable Machine Learning for Predicting Anterior Uveitis in Axial Spondyloarthritis. *Journal of clinical rheumatology : practical reports on rheumatic & musculoskeletal diseases*, 31(5), e42.

Gemünd I, et al. (2025) Characterization of human CMV-specific CD8⁺ T cells using multi-layer single-cell omics. *Cell reports methods*, 5(7), 101085.

Li J, et al. (2024) Predictive value of machine learning model based on CT values for urinary tract infection stones. *iScience*, 27(12), 110843.

Zhan X, et al. (2024) Pyroptosis-related long-noncoding RNA signature predicting survival and immunotherapy efficacy in patients with lung squamous cell carcinoma. *Clinical and experimental medicine*, 24(1), 145.