# Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 9, 2025

## LightGBM

RRID:SCR_021697
Type: Tool

### Proper Citation

LightGBM (RRID:SCR_021697)

### Resource Information

**URL:** https://lightgbm.readthedocs.io/en/latest/

**Proper Citation:** LightGBM (RRID:SCR_021697)

**Description:** Software tool as gradient boosting framework that uses tree based learning algorithms. Designed to be distributed and efficient with advantages:Faster training speed and higher efficiency;Lower memory usage;Better accuracy;Support of parallel, distributed, and GPU learning;Capable of handling large scale data.

**Resource Type:** software resource

**Keywords:** Gradient boosting framework

**Funding:**

**Availability:** Free, Available for download, Freely available

**Resource Name:** LightGBM

**Resource ID:** SCR_021697

**Alternate URLs:** https://github.com/Microsoft/LightGBM/blob/master/docs/index.rst

**Record Creation Time:** 20220129T080357+0000

**Record Last Update:** 20250420T015132+0000

### Ratings and Alerts

No rating or validation information has been found for LightGBM.

No alerts have been found for LightGBM.

## Data and Source Information

**Source:** SciCrunch Registry

## Usage and Citation Metrics

We found 11 mentions in open access literature.

**Listed below are recent publications.** The full list is available at FDI Lab - SciCrunch.org.


Kawai M, et al. (2024) Early detection of pancreatic cancer by comprehensive serum miRNA sequencing with automated machine learning. British journal of cancer, 131(7), 1158.

Özgür S, et al. (2024) A machine learning approach to predict foot care self-management in older adults with diabetes. Diabetology & metabolic syndrome, 16(1), 244.

Ma QL, et al. (2023) Machine Learning Classification of Time since BNT162b2 COVID-19 Vaccination Based on Array-Measured Antibody Activity. Life (Basel, Switzerland), 13(6).

Boudanga Z, et al. (2023) An innovative medical waste management system in a smart city using XAI and vehicle routing optimization. F1000Research, 12, 1060.

Sharma A, et al. (2023) VirulentPred 2.0: An improved method for prediction of virulent proteins in bacterial pathogens. Protein science : a publication of the Protein Society, 32(12), e4808.

Zheng HL, et al. (2023) A data-driven interpretable ensemble framework based on tree models for forecasting the occurrence of COVID-19 in the USA. Environmental science and pollution research international, 30(5), 13648.

Ren J, et al. (2023) Identification of Genes Associated with the Impairment of Olfactory and Gustatory Functions in COVID-19 via Machine-Learning Methods. Life (Basel, Switzerland), 13(3).

Kalyakulina A, et al. (2022) Disease classification for whole-blood DNA methylation: Meta-analysis, missing values imputation, and XAI. GigaScience, 11.

Zheutlin AB, et al. (2022) Improving postpartum hemorrhage risk prediction using longitudinal electronic medical records. Journal of the American Medical Informatics Association : JAMIA, 29(2), 296.

Susi? D, et al. (2022) Identification of decompensation episodes in chronic heart failure patients based solely on heart sounds. Frontiers in cardiovascular medicine, 9, 1009821.

Nori VS, et al. (2020) Deep neural network models for identifying incident dementia using claims and EHR datasets. PloS one, 15(9), e0236400.