Resource Summary Report

Generated by dkNET on Aug 16, 2026

Tree-Based Pipeline Optimization Tool

RRID:SCR_017531
Type: Tool

Proper Citation

Tree-Based Pipeline Optimization Tool (RRID:SCR_017531)

Resource Information

URL: http://automl.info/tpot/

Proper Citation: Tree-Based Pipeline Optimization Tool (RRID:SCR_017531)

Description: Software Python package to automate building of ML pipelines by combining flexible expression tree representation of pipelines with stochastic search algorithms such as genetic programming.

Abbreviations: TPOT

Synonyms: Tree based Pipeline Optimization Tool

Resource Type: software toolkit, software resource

Keywords: Automated, machine, learning, optimize, pipeline, genetic, programming

Funding: NIAID R01 AI117694

Availability: Free, Available for download, Freely available

Resource Name: Tree-Based Pipeline Optimization Tool

Resource ID: SCR_017531

Alternate IDs: SCR_017532

Alternate URLs: https://epistasislab.github.io/tpot/, https://github.com/EpistasisLab/tpot

License: GNU Lesser General Public License v3.0

Record Creation Time: 20220129T080335+0000

Record Last Update: 20260815T183005+0000

Ratings and Alerts

No rating or validation information has been found for Tree-Based Pipeline Optimization Tool.

No alerts have been found for Tree-Based Pipeline Optimization Tool.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Hernandez JG, et al. (2025) The tree-based pipeline optimization tool: Tackling biomedical research problems with genetic programming and automated machine learning. Patterns (New York, N.Y.), 6(7), 101314.

Hagg A, et al. (2023) Open-Source Machine Learning in Computational Chemistry. Journal of chemical information and modeling, 63(15), 4505.

Pontes Balanza B, et al. (2023) Development of a liver graft assessment expert machine-learning system: when the artificial intelligence helps liver transplant surgeons. Frontiers in surgery, 10, 1048451.