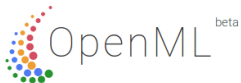


Heidi Seibold

Leiden lunch time lecture, October 2017



Exploring machine learning better, together

19633
data sets

Find or add **data** to analyse

25946
tasks

Download or create scientific
tasks

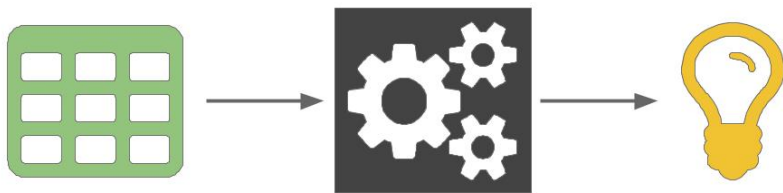
2991
flows

Find or add data analysis **flows**

1705710
runs

Upload and explore all **results**
online.

Machine Learning



 **Details**

Overview

Leaderboard

How to submit

All runs

Tags

study_14 study_7

Add tag

♥ Please cite us

🏆 Supervised Classification on wilt

🏆 Task 9914 🚩 Supervised Classification 📄 wilt ⭐ 276123 runs submitted

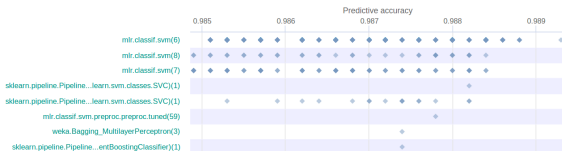
0 likes downloaded by 0 people, 0 total downloads 0 issues

276123 Runs

Show results for: PREDICTIVE ACCURACY

Evaluations per flow (multiple parameter settings)

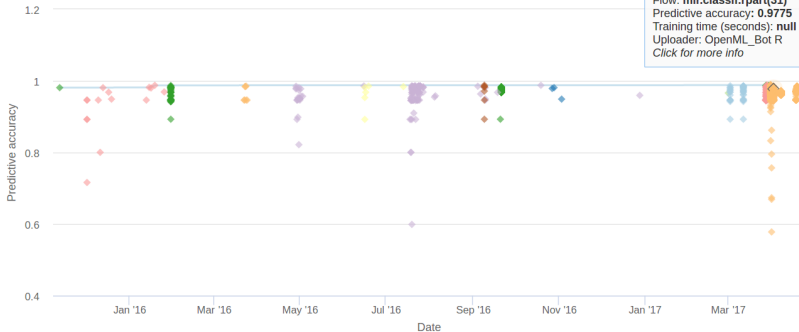
every point is a run, click for details



Contributions over time

every point is a run, click for details

Flow: **mlr.classif.rpart(31)**
Predictive accuracy: **0.9775**
Training time (seconds): **null**
Uploader: OpenML_Bot R
[Click for more info](#)



frontier Rafael G. Mantovani Casey Davis Random Bot Jan van Rijn Joaquin Vanschoren Michel Lang
Josep Pon Farreny Janeek Thomas Giuseppe C. Randal Olson Philipp Probst OpenML_Bot R

Data analysis and machine learning are important in research fields where data are collected.

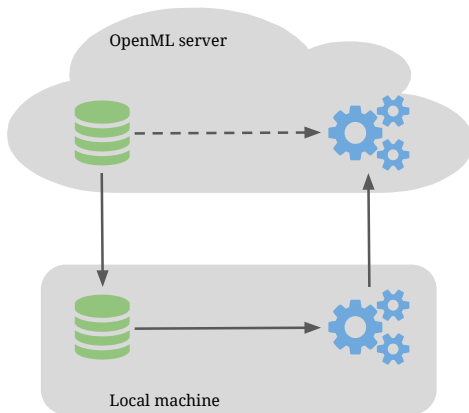


But many researchers need help with this.

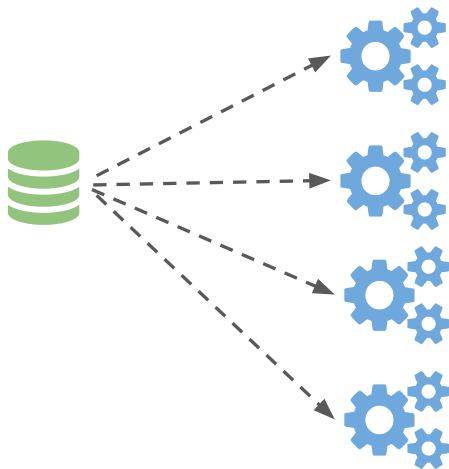


OpenML can be a way to ask machine learners all over the world for help.

OpenML machine learner workflow

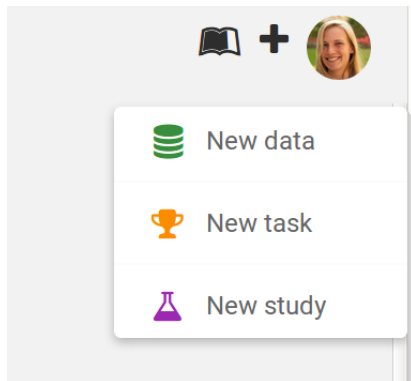


One question, many answers



⇒ pick the best!

Upload a data set



Upload a data set



Add data

Data files

Browse...

Or URL (not both)



Name

Version

Description

Short description (can still be edited online).
Use #tags to label it. Describe where the
data originates from, and whether it was
processed in any way.

Data format ([see specifications](#))

ARFF

Author(s)

Licence - [Learn more](#)

Publicly available

Mark a work that is free of known copyright
restrictions. [More info](#)

Citation requests

How to reference this data in future work
(e.g., publication, DOI).

Who can view this data

Under development

Everyone

Create a task

task = the question = prediction problem

0 tasks

DEFINE A NEW TASK

Create a task



Create new task

Choose Task Type

Task types

Supervised Classification

In supervised classification, you are given an input dataset in which instances are labeled with a certain class. The goal is to build a model that predicts the class for future unlabeled instances. The model is evaluated using a train-test procedure, e.g. cross-validation.

Task inputs

Dataset(s)

Run_or_walk_information(1)



Target Feature

activity

Estimation Procedure









10 TIMES 10-FOLD CROSSVALIDATION ▾

Now is your turn. Try OpenML and let us know what you think!

<https://github.com/openml/OpenML/issues>
or
openmlhq@googlegroups.com

Want to get involved?

Start by participating in hacktoberfest!

<input type="checkbox"/>	 Upload your favorite data set to OpenML and let us know if something does not work beginner Hacktoberfest #461 opened 19 minutes ago by HeidiSeibold
<input type="checkbox"/>	 Guide: can my data be used for machine learning? Hacktoberfest #459 opened a day ago by HeidiSeibold
<input type="checkbox"/>	 Pathway for a person who has data and a question and wants to use OpenML to get an answer Hacktoberfest #458 opened a day ago by HeidiSeibold
<input type="checkbox"/>	 Create tool to convert different data types to ARFF Hacktoberfest #457 opened a day ago by HeidiSeibold
<input type="checkbox"/>	 Explain how to prepare data for upload to OpenML (convert different data types to ARFF) document it Hacktoberfest #456 opened a day ago by HeidiSeibold
<input type="checkbox"/>	 Making OpenML understandable for people with data (who aren't machine learners) Hacktoberfest #455 opened a day ago by HeidiSeibold
<input type="checkbox"/>	 Improve user-friendliness of openml.org beginner Hacktoberfest #454 opened a day ago by HeidiSeibold
<input type="checkbox"/>	 Improve OpenML guide beginner Hacktoberfest #453 opened a day ago by HeidiSeibold

<https://github.com/openml/OpenML/issues>

Questions? Comments?

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@HeidiBaya

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