How to get datasets for Machine Learning

Glossary

Data=a table (dataset, database, sample)

Variables (attributes, features) = measurements made on objects

	VAR 1	VAR 2	VAR 3	VAR 4	VAR 5	VAR 6	VAR 7	VAR 8	VAR 9	VAR 10	VAR 11
Object 1	0	1	2	0	1	1	2	1	0	2	0
Object 2	2	1	2	0	1	1	0	2	1	0	2
Object 3	0	0	1	0	1	1	2	0	2	1	2
Object 4	1	1	2	2	0	0	0	1	2	1	1
Object 5	0	1	0	2	1	0	2	1	1	0	1
Object 6	0	1	2	1	1	1	1	1	1	1	1
Object 7	2	1	0	1	1	2	2	2	1	1	1
Object 8	2	2	1	0	0	0	1	1	1	1	2
Object 9	1	1	0	1	0	0	0	0	1	2	1
Object 10	1	2	2	0	1	0	1	2	1	0	1

Objects (samples, observations, individuals, examples, patterns)

Dimension=number of variables Size=number of objects

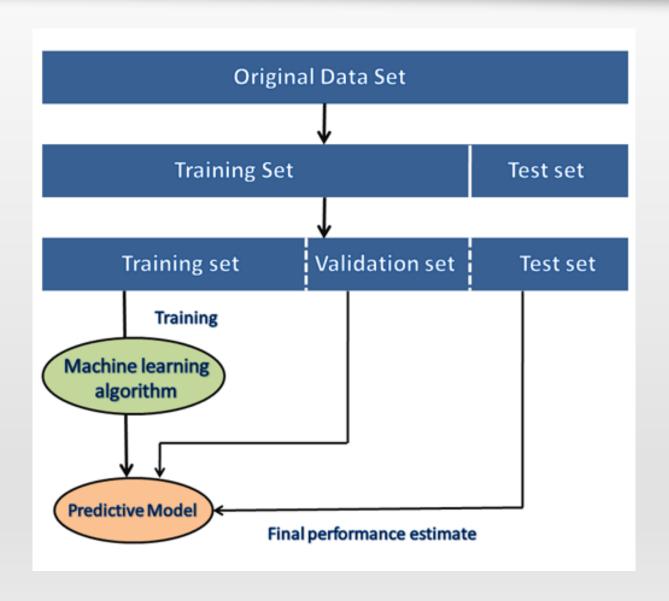
Objects: samples, patients, documents, images...

Variables: genes, proteins, words, pixels...

Types

- Numerical data:Such as house price, temperature, etc.
- Categorical data:Such as Yes/No, True/False, Blue/green, etc.
- Ordinal data: These data are similar to categorical data but can be measured on the basis of comparison.

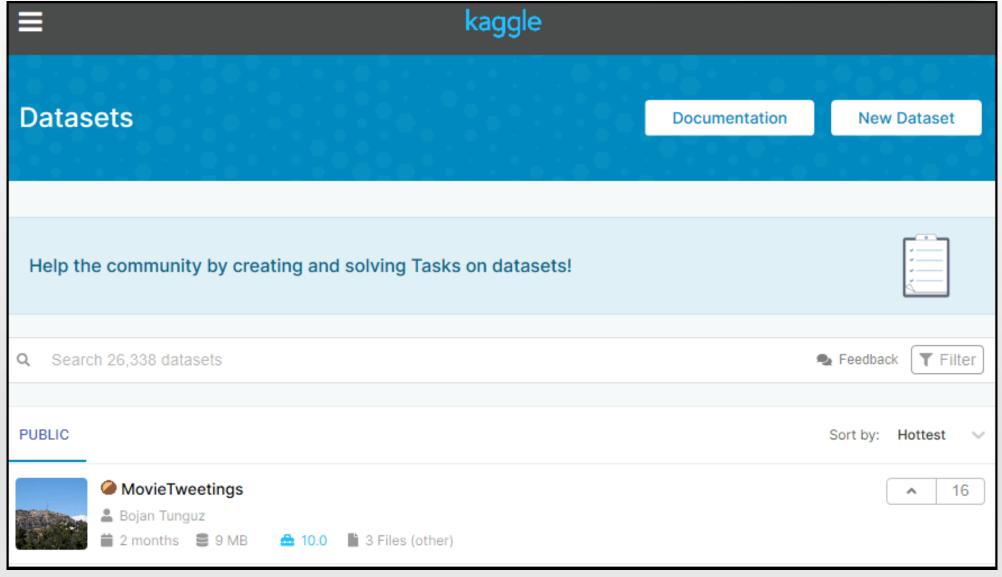
Need of Dataset



- ➤ Training dataset
- ➤ Test Dataset

Popular sources for Machine Learning datasets

Kaggle Datasets



The link for the Kaggle dataset is https://www.kaggle.com/datasets.

UCI Machine Learning Repository



Browse Through: 488 Data Sets

Table View List View

Default Task Classification (360)	<u>Name</u>	<u>Data Types</u>	<u>Default Task</u>	Attribute Types	# Instances	<u>#</u> Attributes	<u>Year</u>
Regression (107) Clustering (90) Other (55) Attribute Type	Abalone	Multivariate	Classification	Categorical, Integer, Real	4177	8	1995
Categorical (38) Numerical (325) Mixed (55)	Adult	Multivariate	Classification	Categorical, Integer	48842	14	1996
Multivariate (374) Univariate (24) Sequential (51)	UCI Annealing	Multivariate	Classification	Categorical, Integer, Real	798	38	
Time-Series (99) Text (55) Domain-Theory (23) Other (21)	Anonymous Microsoft Web Data		Recommender- Systems	Categorical	37711	294	1998
Life Sciences (110) Physical Sciences (52) CS / Engineering (178)	Arrhythmia	Multivariate	Classification	Categorical, Integer, Real	452	279	1998

The link for the UCI machine learning repository is https://archive.ics.uci.edu/ml/index.php

Datasets via AWS

Registry of Open Data on AWS



About

This registry exists to help people discover and share datasets that are available via AWS resources. Learn more about sharing data on AWS.

See all usage examples for datasets listed in this registry.

See datasets from Facebook Data for Good, NOAA Big Data Project, and Space Telescope Science Institute.

Search datasets (currently 120 matching datasets)

Search datasets

Add to this registry

If you want to add a dataset or example of how to use a dataset to this registry, please follow the instructions on the

Sentinel-2

disaster response earth observation geospatial natural resource satellite imagery sustainability

The Sentinel-2 mission is a land monitoring constellation of two satellites that provide high resolution optical imagery and provide continuity for the current SPOT and Landsat missions. The mission provides a global coverage of the Earth's land surface every 5 days, making the data of great use in on-going studies. L1C data are available from June 2015 globally. L2A data are available from April 2017 over wider Europe region and globally since December 2018.

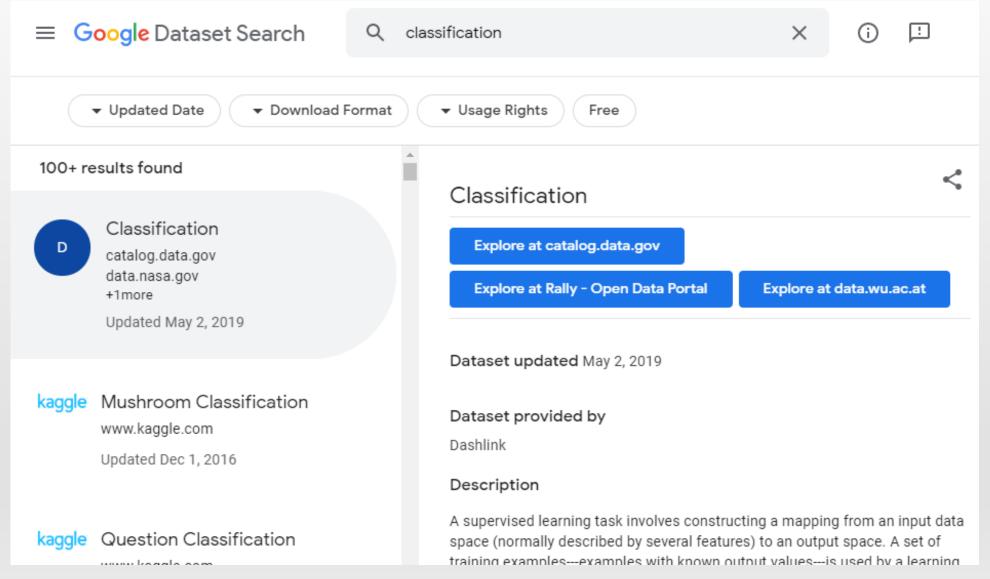
Details →

Usage examples

- Sentinel Playground by Sinergise
- Learning Custom Scripts to Make Useful and Beautiful Satellite Images by Monja Šebela
- Sterling Geo Using Sentinel-2 on Amazon Web Services to Create NDVI by Sterling Geo
- FME Landsat-8/Sentinel-2 File Selector by Safe Software

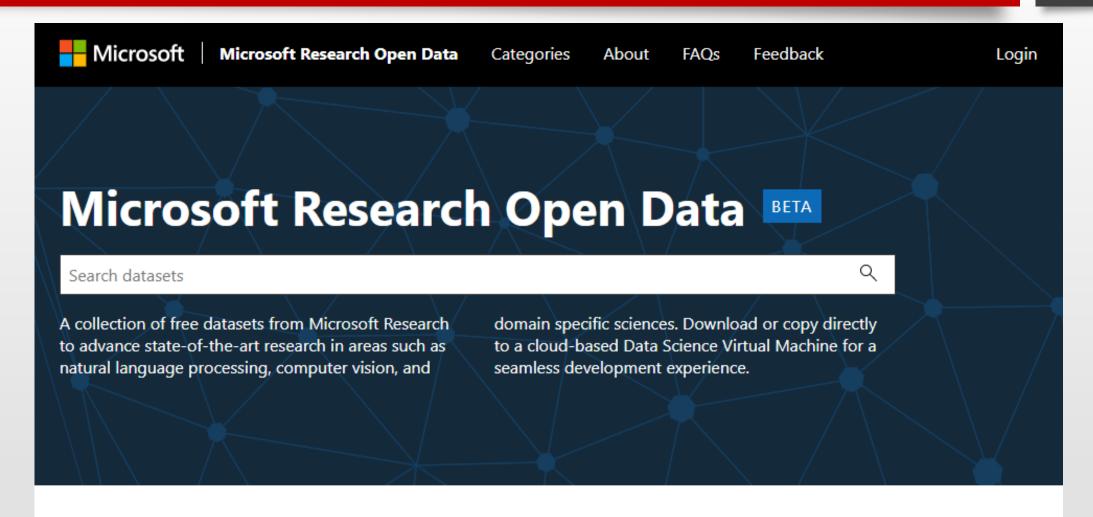
The link for the resource is https://registry.opendata.aws/

Google's Dataset Search Engine



The link for the Google dataset search engine is https://toolbox.google.com/datasetsearch

Microsoft Datasets



Dataset Categories

The link to download or use the dataset from this resource is https://msropendata.com/.

Awesome Public Datasets

[∞] Awesome Public Datasets



NOTICE: This repo is automatically generated by apd-core. Please **DO NOT** modify this file directly. We have provided a new way to contribute to Awesome Public Datasets. The original PR entrance directly on repo is closed forever.

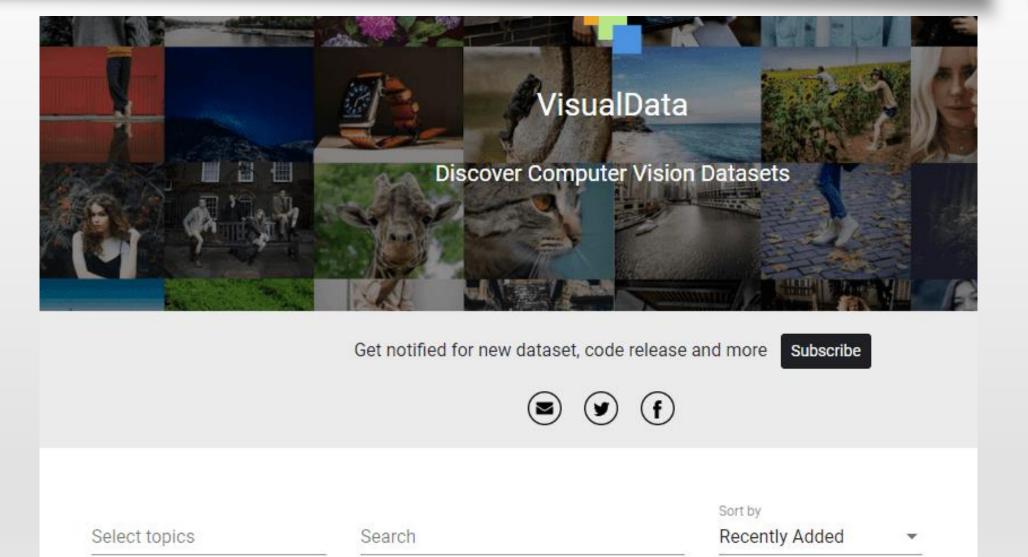
- VI am well.
- Please fix me.

This list of a topic-centric public data sources in high quality. They are collected and tidied from blogs, answers, and user responses. Most of the data sets listed below are free, however, some are not. Other amazingly awesome lists can be found in sindresorhus's awesome list.

Table of Contents

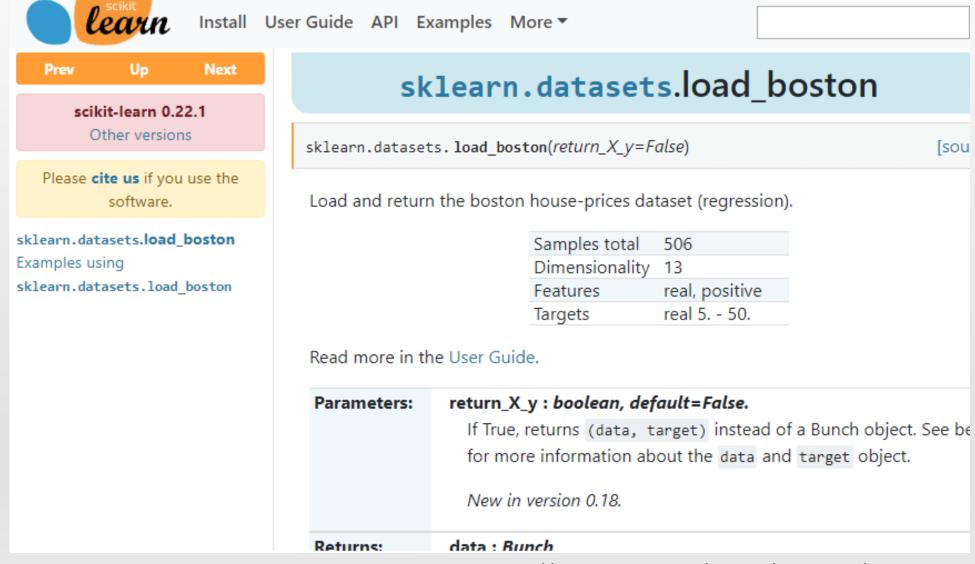
- Agriculture
- Biology
- Climate+Weather
- ComplexNetworks
- ComputerNetworks

Computer Vision Datasets



The link for downloading the dataset from this source is https://www.visualdata.io/.

Scikit-Learn Datasets



The link to download datasets from this source is https://scikit-learn.org/stable/datasets/index.html.