



Ruslan Korniichuk

**Where to find datasets for your
upcoming Python project**



Pytech Summit

All about Python **2023**



Luxoft
A DXC Technology Company



Soft Kraft

Where to find datasets for your upcoming Python project



Ruslan Korniichuk | 07.12.2023

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01

Python native
datasets

User Guide

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7. Dataset loading utilities

The `sklearn.datasets` package embeds some small toy datasets as introduced in the [Getting Started](#) section.

This package also features helpers to fetch larger datasets commonly used by the machine learning community to benchmark algorithms on data that comes from the ‘real world’.

To evaluate the impact of the scale of the dataset (`n_samples` and `n_features`) while controlling the statistical properties of the data (typically the correlation and informativeness of the features), it is also possible to generate synthetic data.

General dataset API. There are three main kinds of dataset interfaces that can be used to get datasets depending on the desired type of dataset.

The dataset loaders. They can be used to load small standard datasets, described in the [Toy datasets](#) section.

The dataset fetchers. They can be used to download and load larger datasets, described in the [Real world datasets](#) section.

Both loaders and fetchers functions return a `Bunch` object holding at least two items: an array of shape `n_samples * n_features` with key `data` (except for 20newsgroups) and a numpy array of length `n_samples`, containing the target values, with key `target`.

The `Bunch` object is a dictionary that exposes its keys as attributes. For more information about `Bunch` object, see [Bunch](#).

It’s also possible for almost all of these function to constrain the output to be a tuple containing only the data and the target, by setting the `return_X_y` parameter to `True`.

The datasets also contain a full description in their `DESCR` attribute and some contain `feature_names` and `target_names`. See the dataset descriptions below for details.

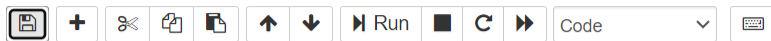
The dataset generation functions. They can be used to generate controlled synthetic datasets, described in the [Generated datasets](#) section.

These functions return a tuple `(X, y)` consisting of a `n_samples * n_features` numpy array `X` and an array of length `n_samples` containing the targets `y`.

In addition, there are also miscellaneous tools to load datasets of other formats or from other locations, described in the [Loading other datasets](#) section.

7.1. Toy datasets

- 7.1.1. Iris plants dataset
- 7.1.2. Diabetes dataset
- 7.1.3. Optical recognition of handwritten digits dataset
- 7.1.4. Linnerrud dataset
- 7.1.5. Wine recognition dataset
- 7.1.6. Breast cancer wisconsin (diagnostic) dataset



```
In [1]: import pandas as pd
import sklearn.datasets
```

```
In [2]: dataset = sklearn.datasets.fetch_california_housing() # returns a Bunch object
```

```
In [3]: df = pd.DataFrame(dataset.data, columns=dataset.feature_names)
df['target'] = pd.Series(dataset.target)
```

```
In [4]: df.head()
```

Out[4]:

	MedInc	HouseAge	AveRooms	AveBedrms	Population	AveOccup	Latitude	Longitude	target
0	8.3252	41.0	6.984127	1.023810	322.0	2.555556	37.88	-122.23	4.526
1	8.3014	21.0	6.238137	0.971880	2401.0	2.109842	37.86	-122.22	3.585
2	7.2574	52.0	8.288136	1.073446	496.0	2.802260	37.85	-122.24	3.521
3	5.6431	52.0	5.817352	1.073059	558.0	2.547945	37.85	-122.25	3.413
4	3.8462	52.0	6.281853	1.081081	565.0	2.181467	37.85	-122.25	3.422

 seaborn-data

Public

 Watch 59

 Fork 2.9k

 Star 1.4k

 master

 1 branch

 0 tags

Go to file

Add file

<> Code

 mwaskom Merge pull request #27 from koenvo/add-dataset-names-file ...	2b29313 on Jan 26	46 commits
 png	More updates	2 years ago
 process	Remove one-off 2021 datapoint from healthexp dataset	last year
 raw	Add dowjones dataset	last year
 README.md	Add dowjones dataset	last year
 anagrams.csv	Rename messy anagrams dataset	3 years ago
 anscombe.csv	Add anscombe dataset	10 years ago
 attention.csv	Add attention dataset	9 years ago
 brain_networks.csv	Add brain networks dataset	9 years ago
 car_crashes.csv	Add 538 car crash dataset	8 years ago
 dataset_names.txt	Add a file containing all available dataset names	last year
 diamonds.csv	Add diamonds dataset	5 years ago
 dots.csv	Add dots dataset	6 years ago
 dowjones.csv	Add dowjones dataset	last year
 exercise.csv	Add exercise dataset	9 years ago
 flights.csv	Add flights dataset	9 years ago
 fmri.csv	Change sorting of events in fmri data	6 years ago
 geyser.csv	Add geyser dataset	3 years ago
 glue.csv	Add several new datasets	last year
 healthexp.csv	Remove one-off 2021 datapoint from healthexp dataset	last year
 iris.csv	Add iris dataset	9 years ago
 mpg.csv	Add mpg dataset	5 years ago

About

Data repository for seaborn examples

 seaborn.pydata.org/

-  Readme
-  Activity
-  1.4k stars
-  59 watching
-  2.9k forks

Report repository

Releases

No releases published

Packages

No packages published

Contributors 3

-  mwaskom Michael Waskom
-  koenvo
-  trenton3983 Trenton J. McKinney

Languages

-  Python 100.0%



```
In [1]: import pandas as pd
import seaborn
```

```
In [2]: seaborn.get_dataset_names()
```

```
Out[2]: ['anagrams',
'anscombe',
'attention',
'brain_networks',
'car_crashes',
'diamonds',
'dots',
'dowjones',
'exercise',
'flights',
'fmri',
'geyser',
'glue',
'healthexp',
'iris',
'mpg',
'penguins',
'planets',
'seaice',
'taxis',
'tips',
'titanic']
```

```
In [3]: dataset = seaborn.load_dataset("tips")
```

```
In [4]: dataset.head()
```

```
Out[4]:
```

	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4

Datasets

[Overview](#)
[Catalog](#)
[Community Catalog](#)
[Guide](#)
[API](#)

Learn the latest in machine learning, generative AI, and more at WIML Symposium 2023

Register

TensorFlow Datasets: a collection of ready-to-use datasets.

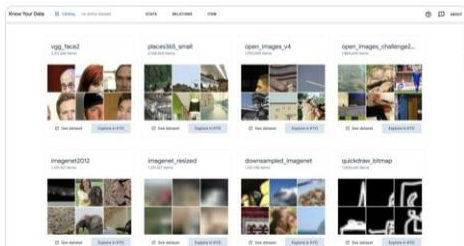
TensorFlow Datasets is a collection of datasets ready to use, with TensorFlow or other Python ML frameworks, such as Jax. All datasets are exposed as [tf.data.Datasets](#), enabling easy-to-use and high-performance input pipelines. To get started see the [guide](#) and our [list of datasets](#).

```
import tensorflow as tf
import tensorflow_datasets as tfds

# Construct a tf.data.Dataset
ds = tfds.load('mnist', split='train', shuffle_files=True)

# Build your input pipeline
ds = ds.shuffle(1024).batch(32).prefetch(tf.data.AUTOTUNE)
for example in ds.take(1):
    image, label = example["image"], example["label"]
```

RUN IN A  NOTEBOOK



Explore datasets with Know Your Data

[Go to Know Your Data](#)



Introducing TensorFlow Datasets

[Read on TensorFlow Blog](#)



TensorFlow Datasets on GitHub

[View on GitHub](#)

Datasets

Overview

Catalog

Community Catalog

Guide

API

 Filter

Overview

- Dataset Collections
- 3d
- Abstractive text summarization
- Anomaly detection
- Audio
- Biology
- Categorical
- Common sense reasoning
- Computer science
- Conditional image generation
- Coreference resolution
- D4rl
- Density estimation
- Dependency parsing
- Dialog act labeling
- Dialogue
- Document summarization
- Fine grained image classification
- Graph
- Graphs
- Image
- Image classification
- Image clustering
- Image compression
- Image generation
- Image segmentation
- Image super resolution
- Image to image translation
- Instance segmentation
- Language modeling
- Linguistic acceptability
- Machine translation

Learn the latest in machine learning, generative AI, and more at WIML Symposium 2023

Register

TensorFlow > Resources > Datasets > Catalog

Was this helpful?  

Datasets

★ **Note:** The datasets documented here are from **HEAD** and so not all are available in the current **tensorflow-datasets** package. They are all accessible in our nightly package **tfds-nightly**.

Usage

See our [getting-started guide](#) for a quick introduction.

```
for ex in tfds.load('cifar10', split='train'):
    ...
```

All Datasets

Dataset Collections

- `longt5`
- `xtreme`

3d

- `aflw2k3d`
- `smallnorb`

- On this page
- Usage
- All Datasets
- Dataset Collections
- 3d
- Abstractive text summarization
- Anomaly detection
- Audio
- Biology
- Categorical
- Common sense reasoning
- Computer science
- Conditional image generation
- Coreference resolution
- D4rl
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- Graph
- Graphs
- Image
- Image classification
- Image clustering
- Image compression
- Image generation
- Image segmentation
- Image super resolution
- Image to image translation
- Instance segmentation
- Language modeling
- Linguistic acceptability
- Machine translation
- Monolingual
- Movies and tv shows



```
In [1]: import pandas as pd
import tensorflow as tf
import tensorflow_datasets as tfds
```

```
In [2]: # Construct a tf.data.Dataset
ds, ds_info = tfds.load("imdb_reviews", split="train", with_info=True)
```

```
In [3]: df = tfds.as_dataframe(ds.take(3), ds_info)
```

```
In [4]: df
```

Out[4]:

	label	text
0	0 (neg)	This was an absolutely terrible movie. Don't be lured in by Christopher Walken or Michael Ironside. Both are great actors, but this must simply be their worst role in history. Even their great acting could not redeem this movie's ridiculous storyline. This movie is an early nineties US propaganda piece. The most pathetic scenes were those when the Columbian rebels were making their cases for revolutions. Maria Conchita Alonso appeared phony, and her pseudo-love affair with Walken was nothing but a pathetic emotional plug in a movie that was devoid of any real meaning. I am disappointed that there are movies like this, ruining actor's like Christopher Walken's good name. I could barely sit through it.
1	0 (neg)	I have been known to fall asleep during films, but this is usually due to a combination of things including, really tired, being warm and comfortable on the sette and having just eaten a lot. However on this occasion I fell asleep because the film was rubbish. The plot development was constant. Constantly slow and boring. Things seemed to happen, but with no explanation of what was causing them or why. I admit, I may have missed part of the film, but i watched the majority of it and everything just seemed to happen of its own accord without any real concern for anything else. I cant recommend this film at all.
2	0 (neg)	Mann photographs the Alberta Rocky Mountains in a superb fashion, and Jimmy Stewart and Walter Brennan give enjoyable performances as they always seem to do. But come on Hollywood - a Mountie telling the people of Dawson City, Yukon to elect themselves a marshal (yes a marshall!) and to enforce the law themselves, then gunfighters battling it out on the streets for control of the town? Nothing even remotely resembling that happened on the Canadian side of the border during the Klondike gold rush. Mr. Mann and company appear to have mistaken Dawson City for Deadwood, the Canadian North for the American Wild West. Canadian viewers be prepared for a Reefer Madness type of enjoyable howl with this ludicrous plot, or, to shake your head in disgust.

Tasks Sizes Sub-tasks Languages Licenses Other

Multimodal

- Feature Extraction
- Text-to-Image
- Image-to-Text
- Image-to-Video
- Text-to-Video
- Visual Question Answering
- Graph Machine Learning
- Text-to-3D
- Image-to-3D

Computer Vision

- Depth Estimation
- Image Classification
- Object Detection
- Image Segmentation
- Image-to-Image
- Unconditional Image Generation
- Video Classification
- Zero-Shot Image Classification
- Mask Generation
- Zero-Shot Object Detection

Natural Language Processing

- Text Classification
- Token Classification
- Table Question Answering
- Question Answering
- Zero-Shot Classification
- Translation
- Summarization
- Conversational
- Text Generation
- Text2Text Generation
- Fill-Mask
- Sentence Similarity
- Table to Text
- Multiple Choice
- Text Retrieval

Audio

- Text-to-Speech
- Text-to-Audio
- Automatic Speech Recognition
- Audio-to-Audio
- Audio Classification
- Voice Activity Detection

Tabular

- Tabular Classification
- Tabular Regression

Datasets 84,353

[new](#) Full-text search

 Sort: Trending

 **wikimedia/wikipedia**

 Viewer • Updated 1 day ago • $\pm$ 3.82k • $\heartsuit$ 118

 **berkeley-nest/Nectar**

 Viewer • Updated 9 days ago • $\pm$ 1.34k • $\heartsuit$ 113

 **Lin-Chen/ShareGPT4V**

 Viewer • Updated 14 days ago • $\pm$ 329 • $\heartsuit$ 117

 **nvidia/HelpSteer**

 Viewer • Updated 8 days ago • $\pm$ 1.53k • $\heartsuit$ 102

 **argilla/ultrafeedback-binarized-preferences**

 Viewer • Updated 7 days ago • $\pm$ 116 • $\heartsuit$ 17

 **Anthropic/hh-rlhf**

 Viewer • Updated May 26 • $\pm$ 39.1k • $\heartsuit$ 774

 **gaia-benchmark/GAIA**

 Viewer • Updated 14 days ago • $\pm$ 194 • $\heartsuit$ 71

 **HuggingFaceH4/no_robots**

 Viewer • Updated 25 days ago • $\pm$ 2.94k • $\heartsuit$ 229

 **jondurbin/cinematika-v0.1**

 Viewer • Updated 6 days ago • $\pm$ 273 • $\heartsuit$ 13

 **HuggingFaceH4/ultrachat_200k**

 Viewer • Updated Oct 27 • $\pm$ 38.3k • $\heartsuit$ 142

 **gsdf/EasyNegative**

 Viewer • Updated Feb 12 • $\pm$ 5 • $\heartsuit$ 1.08k

 **HuggingFaceH4/ultrafeedback_binarized**

 **fka/awesome-chatgpt-prompts**

 Viewer • Updated Mar 7 • $\pm$ 899 • $\heartsuit$ 3.91k

 **MMMU/MMMU**

 Viewer • Updated 2 days ago • $\pm$ 4.59k • $\heartsuit$ 55

 **BAAI/CCI-Data**

Updated 8 days ago • $\pm$ 44 • $\heartsuit$ 42

 **epfl-llm/guidelines**

 Viewer • Updated 1 day ago • $\pm$ 197 • $\heartsuit$ 43

 **ise-uiuc/Magicoder-OSS-Instruct-75K**

 Viewer • Updated 3 days ago • $\pm$ 35 • $\heartsuit$ 17

 **Open-Orca/SlimOrca**

 Viewer • Updated Oct 12 • $\pm$ 4.2k • $\heartsuit$ 110

 **Open-Orca/OpenOrca**

 Viewer • Updated Oct 21 • $\pm$ 28k • $\heartsuit$ 927

 **allenai/ultrafeedback_binarized_cleaned**

 Viewer • Updated 5 days ago • $\pm$ 1.13k • $\heartsuit$ 14

 **teknium/openhermes**

 Viewer • Updated Sep 7 • $\pm$ 521 • $\heartsuit$ 90

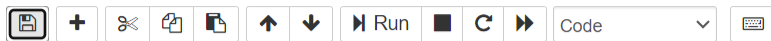
 **ise-uiuc/Magicoder-Evol-Instruct-110K**

 Viewer • Updated 3 days ago • $\pm$ 22 • $\heartsuit$ 11

 **uonlp/CulturaX**

 Viewer • Updated Sep 25 • $\pm$ 60.5k • $\heartsuit$ 251

 **wikipedia**



```
In [1]: import datasets
import pandas as pd
```

```
In [2]: %%capture

dataset = datasets.load_dataset("imdb", split="train")
```

```
In [3]: df = pd.DataFrame(dataset)
```

```
In [4]: df.head()
```

Out[4]:

	text	label
0	I rented I AM CURIOUS-YELLOW from my video sto...	0
1	"I Am Curious: Yellow" is a risible and preten...	0
2	If only to avoid making this type of film in t...	0
3	This film was probably inspired by Godard's Ma...	0
4	Oh, brother...after hearing about this ridicul...	0

02

Regular public datasets

Regular public datasets

- DataHub
- Google Dataset Search
- OpenML
- Opendatasoft
- FiveThirtyEight
- Gapminder
- Kaggle
- UCI Machine Learning Repository
- European Data Portal
- USA Government Open Data
- Awesome Public Datasets

Collections

Climate Open Data

Climate Open Data collection.

[View Collection](#) >

Broadband Data

Data on broadband access and usage around the world

[View Collection](#) >

Stock Market Data

Find and Explore ready-to-use Stock Market Datasets.

[View Collection](#) >

Reference Data

Easy-to-use reference data in CSV and JSON formats.

[View Collection](#) >

Machine Learning / Statistical Data

Examples of machine learning datasets.

[View Collection](#) >

Dataset Search



Try [coronavirus covid-19](#) or [water quality site:canada.ca](#).

[Learn more](#) about Dataset Search.



Search



Datasets

5.4k



Tasks



Flows



Runs



Collections



Benchmarks



Task Types



Measures

Learn



Documentation



Blog



API's



Contribute



Meet up



About us



Terms & Citation

5394 datasets found verified

Datasets

Datasets provide training data for machine learning models. OpenML datasets are uniformly formatted and come with rich meta-data to allow automated processing. You can sort or filter them by a range of different properties. [Learn more.](#)

credit-g

This dataset classifies people described by a set of attributes as good or bad credit risks.

506k 28 311 1000 x 21 31 10 years ago

v.1

blood-transfusion-service-center

Data taken from the Blood Transfusion Service Center in Hsin-Chu City in Taiwan -- this is a classification problem.

469k 6 101 748 x 5 1464 9 years ago

v.1

monks-problems-2

Once upon a time, in July 1991, the monks of Corsendonk Priory were faced with a school held in their priory, namely the 2nd European Summer School on Machine Learning. After listening more than one week to a wide variety of learning algorithms, they felt rather confused: Which algorithm would be optimal? And which one to avoid? As a consequence of this dilemma, they created a simple task on which all learning algorithms ought to be compared: the three MONK's problems.

395k 3 34 601 x 7 334 9 years ago

v.1

tic-tac-toe

This database encodes the complete set of possible board configurations at the end of tic-tac-toe games, where "x" is assumed to have played first. The target concept is "win for x" (i.e., true when "x" has one of 8 possible ways to create a "three-in-a-row").

387k 958 x 10 50 10 years ago

v.1

monks-problems-1

Once upon a time, in July 1991, the monks of Corsendonk Priory were faced with a school held in their priory, namely the 2nd European Summer School on Machine Learning. After listening more than one week to a wide variety of learning algorithms, they felt rather confused: Which algorithm would be optimal? And which one to avoid? As a consequence of this dilemma, they created a simple task on which all learning algorithms ought to be compared: the three MONK's problems.

359k 556 x 7 333 9 years ago

v.1

steel-plates-fault

A dataset of steel plates' faults, classified into 7 different types. The goal was to train machine learning for automatic pattern recognition.

278k 2 52 1.94k x 34 1504 9 years ago

v.1

32,797 **datasets** already open and ready to use

Search datasets...

486M

downloads

33k

open datasets

10.49B

API calls

Learn how to use data in minutes!

 Get started with ODS Academy

Data publishers we ♥



Our Data

We're sharing the data and code behind some of our articles and graphics. We hope you'll use it to check our work and to create stories and visualizations of your own.

DATA SET	RELATED CONTENT	LAST UPDATED		
polls	Latest Polls	Sept. 27	info	↓
congress-generic-ballot	Do Voters Want Democrats Or Republicans In Congress?	Sept. 26	info	↓
mlb-elo	2023 MLB Predictions	June 21	info	↓
nba-forecasts	2022-23 NBA Predictions	June 14	info	↓
nba-raptor	The Best NBA Players, According To RAPTOR	June 14	info	↓
	Introducing RAPTOR, Our New Metric For The Modern NBA	Oct. 10, 2019		
	How Our RAPTOR Metric Works	Oct. 10, 2019		
nhl-forecasts	2022-23 NHL Predictions	June 14	info	↓

[Home](#) > [Download the data](#)

Download the data

Data documentation

[Read more here](#)

Bulk download

The complete datasets with hundreds of indicators are available in Github repositories:

 [Systema Globalis](#) (indicators inherited from Gapminder World, many are still updated)

 [Fast Track](#) (indicators we compile manually)

 [World Development Indicators](#) (direct copy from World Bank)

The data is organized in loose CSV files which can be consumed by any spreadsheet software. If you are developing something and want to work with the full datasets more efficiently you can benefit from [DDF data model](#).

Choose individual indicators

This menu lists all indicators available in Gapminder Tools. Select one to preview the data, then click download as CSV or XLSX.

Select an indicator •

Babies per woman

CO2 emissions per person

Child mortality

Income

Life expectancy

Datasets

Explore, analyze, and share quality data. [Learn more](#) about data types, creating, and collaborating.

[+ New Dataset](#)


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[Computer Science](#)
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[Classification](#)
[Computer Vision](#)
[NLP](#)
[Data Visualization](#)
[Pre-Trained Model](#)

Trending Datasets

[See All](#)


Starbucks

Henry Shan · Updated a day ago

Usability **10.0** · 5 kB

1 File (CSV)

16



Football Players' Transfer Fee Prediction Dataset

Khang Huynh Nguyen Trong · Updated 7 ...

Usability **10.0** · 562 kB

1 File (CSV)

10



HBO and HBO Max Content Dataset

The Devastator · Updated 3 days ago

Usability **9.4** · 101 kB

2 Files (CSV)

10



Microsoft Stock Price(2000-2023)

Prajwal Dongre · Updated 14 days ago

Usability **9.4** · 130 kB

1 File (CSV)

13

Music

[See All](#)




Filters

Search datasets...



Keywords



Data Type



Subject Area



Task



Features



Instances



Feature Type



Python



Browse Datasets



SORT BY # VIEWS, DESC



EXPAND ALL



Iris

A small classic dataset from Fisher, 1936. One of the earliest known datasets used for evaluating classification methods.

Classification

Tabular

150 Instances

4 Features



Heart Disease

4 databases: Cleveland, Hungary, Switzerland, and the VA Long Beach

Classification

Multivariate

303 Instances

13 Features



Adult

Predict whether income exceeds \$50K/yr based on census data. Also known as "Census Income" dataset.

Classification

Multivariate

48.84K Instances

14 Features



Wine

Using chemical analysis to determine the origin of wines

Classification

Tabular

178 Instances

13 Features



Breast Cancer Wisconsin (Diagnostic)

Diagnostic Wisconsin Breast Cancer Database.

Classification

Multivariate

569 Instances

30 Features



Diabetes

This diabetes dataset is from AIM '94

Classification

Multivariate, Time-Series

1 Instances

20 Features



Car Evaluation

Derived from simple hierarchical decision model, this database may be useful for testing constructive induction and structure discovery methods.

Classification

Multivariate

1.73K Instances

6 Features



Dry Bean Dataset



European data

data.europa.eu

The official portal for European data

Home

Data

Academy

Community

Publications

Documentation

Home > Datasets

Datasets

Publisher

- Any -

Formats

- Any -

Catalogues

- Any -

Categories

- Any -

Keywords

- Any -

More filters

Search

Datasets

Datasets found (1 622 448)

Sort by:

Relevance

Energy Usage for Other Areas FCC

This Data set if of the other remaining 11 % of the consumption is made up of smaller accounts within Fingal County Council, which have not been defined as significant but might become...

CSV HTML

Data.gov.ie

SUSPENSION Paking Bays 2021 2022 FCC

This Data Set contains the details of SUSPENSION of Parking Bays Request submitted to Fingal County Council for 2021 and 2022. It shows the amount submitted and status and yearly totals.

HTML CSV

Data.gov.ie

Road closures Temporary Licences FCC

For details on Data.gov's new home page redesign, please click [here](#).

The Home of the U.S. Government's Open Data

Here you will find data, tools, and resources to conduct research, develop web and mobile applications, design data visualizations, and more.

283,694 DATASETS AVAILABLE



Most Viewed Datasets



Recently Added Datasets



Datasets by Organization



Geospatial



About Data.gov

Data.gov is the United States government's open data website. It provides access to datasets published by agencies across the federal government. Data.gov is intended to provide access to government open data to the public, achieve agency missions, drive innovation, fuel economic activity, and uphold the ideals of an open and transparent government.

[Explore the timeline →](#)



awesome-public-datasets

Public

Watch 2.3k

Fork 9.7k

Star 57.2k

master

2 branches

2 tags

Go to file

Add file

<> Code

caesar0301 Update README sha: [aded6c3](#)

bc18035 yesterday 773 commits



Datasets

Add titanic dataset

9 years ago



LICENSE

Update license copyright info.

8 years ago



README.rst

Update README sha: [aded6c3](#)

yesterday

README.rst

Awesome Public Datasets



This is a list of [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. This project was incubated at [OMNILab](#), Shanghai Jiao Tong University during Xiaming Chen's Ph.D. studies. OMNILab is now part of the [BaiYuLan Open AI community](#). Other amazingly awesome lists can be found in [sindresorhus's awesome](#) list.

Special thanks to

About

A topic-centric list of HQ open datasets.

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Releases 1

[v20230903](#) Latest

on Sep 3

03

Domain-specific datasets

Domain-specific datasets

- FBI Crime Data Explorer
- NASA Open Data Portal
- Earthdata
- Global Health Observatory
- BFI Industry Data
- CERN Open Data Portal

Federal Bureau of Investigation Crime Data Explorer

The FBI's Crime Data Explorer (CDE) aims to provide transparency, create easier access, and expand awareness of criminal, and noncriminal, law enforcement data sharing; improve accountability for law enforcement; and provide a foundation to help shape public policy with the result of a safer nation. Use the CDE to discover available data through visualizations, download data in .csv format, and other large data files.



[Latest Updates to the Crime Data Explorer](#)



Crime Data
Explorer

GO



Law Enforcement
Explorer

GO



Data Discovery
Tool

GO



Special Reports

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Explore by Location and Dataset

State participation depicts current year.



Dataset

All Data Collections ▾

United States ▾

GO

Population: 330,599,346



Q

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Categories ▾

Aerospace

Applied Science

Apps

Earth Science

Management/Operations

Show All...

View Types ▾

Calendars

Charts

Data Lens pages

Datasets

External Datasets

Files and Documents

Filtered Views

Forms

Maps

Tags ▾

(100) hekate

(100480) 1996 uk

Machine Learning Suitable NASA Datasets

If you're a NASA individual adding more data to [data.nasa.gov](#) that has a machine-learning application, please use the topic tag `usg-artificial-intelligence` in your metadata to make sure it returns in these results: <https://data.nasa.gov/browse?tags=usg-artificial-intelligence>

Featured Content

NASA Acronyms in Public Abstracts

January 31, 20237,611 Views

NASA Acronyms in Public Abstracts ## Dataset Description ## This dataset was created as a data source for machine-learning models used to disa...

Mars orbital image (HiRISE) labeled data set version 3

January 31, 202310.4K Views

This data set contains a total of 73,031 landmarks. 10,433 landmarks were detected and extracted from 180 HiRISE browse images, and 62,598 land...

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10k+ Results

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Woody Biomass for Eastern U.S. Forests, 1983-1996

External Link

Estimates of the woody biomass density and pools were derived at the county scale of resolution of all forests of the eastern United States using new approaches for converting inventoried wood volume to estimates of above and More

Created December 4, 2023Views 20

Tags vegetation, earth science, biosphere

VIIRS/NPP Nadir BRDF-Adjusted Reflectance Daily L3 Global 500m SIN Grid NRT

External Link

The VIIRS/NPP Nadir BRDF-Adjusted Reflectance Daily L3 Global 500 m SIN Grid Near Real Time (NRT), short-name VNP431A4N product provides NBAR estimates at 500 meter (m) resolution. The VNP431A4N product is produced daily

Created December 4, 2023

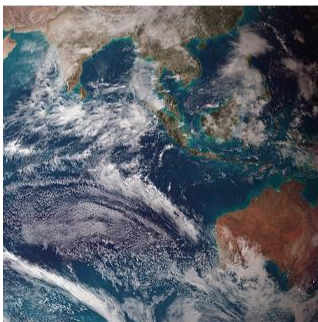


Find Data

NASA acquires, archives, and distributes data from a variety of sources, including remote sensing instruments on satellite and airborne platforms, field campaigns, in situ measurements, and model outputs. These data span the breadth of Earth science disciplines and cover even the most remote areas of the planet, providing measurements of Earth's atmosphere, ocean, land, and cryosphere; assessments about how humans interact with the environment; and assessments of calibrated radiance and solar radiance. These measurements help NASA better understand climate change, severe weather, sea ice and glaciers, hazards and disasters, health and air quality, ecology, and water resources. Through interagency and international partnerships, NASA also distributes and promotes Earth observation data from non-NASA missions.

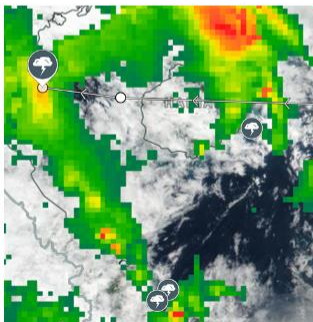


An Earthdata Login is required before users can download data or use selected tools from the Distributed Active Archive Centers (DAACs) that comprise NASA's Earth Observing System Data and Information System (EOSDIS).

[Register](#)

Browse By Topic

Data and information are filtered by nine key topics: Atmosphere, Biosphere, Cryosphere, Human Dimensions, Land Surface, Ocean, Solid Earth, Sun-Earth Interactions, and Terrestrial Hydrosphere. Explore the datasets within your topic of interest.



Access By API

Browse the variety of Application Programming Interfaces (APIs) Earthdata provides to find, discover, and access NASA Earth science data from the command line.



Global Health Observatory data repository

[Data analysis](#)[By theme](#)[By category](#)[By indicator](#)[Metadata](#)[About the Observatory](#)[Search](#)

Welcome to the Global Health Observatory, WHO's gateway to health-related statistics for more than 1000 indicators for its 194 Member States. Data are organized to monitor progress towards the Sustainable Development Goals (SDGs), including health status indicators to monitor progress towards for the overall health goal, indicators to track equity in health indicators, and the indicators for the specific health and health-related targets of the SDGs.

SDG health and health-related targets

- [Mortality and global health estimates](#)
- [Health Equity Monitor](#)

3.1 Maternal mortality

- [Maternal and reproductive health](#)

3.2 Newborn and child mortality

- [Child health](#)
- [Child mortality](#)

3.3 Communicable diseases

- [HIV/AIDS](#)
- [Tuberculosis](#)
- [Malaria](#)
- [Neglected tropical diseases](#)
- [Cholera](#)
- [Influenza](#)
- [Meningitis](#)
- [Other vaccine-preventable communicable diseases](#)
- [Sexually transmitted infections](#)

3.4 Noncommunicable diseases and mental health

- [Noncommunicable diseases](#)
- [Mental health](#)

3.5 Substance abuse

- [Global Information System on Alcohol and Health \(GISAH\)](#)
- [Resources for the Prevention and Treatment of Substance Use Disorders](#)

3.6 Road traffic injuries



Industry data and insights

Read free research data and market intelligence on the UK film industry and other screen sectors.

We publish the annual BFI Statistical Yearbook, and produce official statistics and bespoke research throughout the year.

Weekend box office figures

Weekly figures for the top 15 films released in the UK, all other British releases and newly-released films.

[Find out more >](#)

Statistical Yearbook

The comprehensive resource for statistics, tables, charts and commentary on the UK screen industries.

[Find out more >](#)

Official statistics release calendar

Official statistics on the UK film industry and other screen sectors.

[Find out more >](#)

Reports

Research and market intelligence for the UK and international markets.

[Find out more >](#)

Research and Statistics Fund

Supporting independent public-domain evidence for the UK film industry and other screen sectors.

Research ethics and integrity policy

Setting out the standards, policies and codes of conduct expected of anyone engaged in research for, or on behalf of, the BFI.

Explore more than **three petabytes**
of open data from particle physics!

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Search

search examples: [collision datasets](#), [keywords:education](#), [energy:7TeV](#)

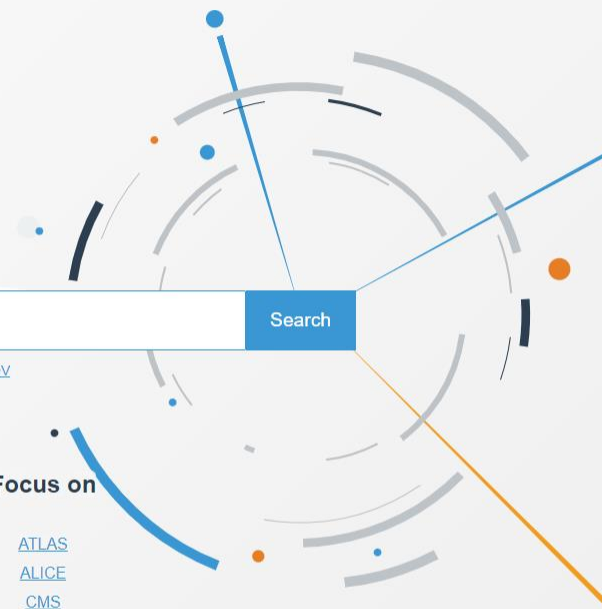
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[LHCb](#)
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⌵ Get started ⌵



04

Data APIs

public-apis Public

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master

2 branches

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Go to file

Add file

<> Code

About

A collective list of free APIs

public-apis.org

api lists open-source list
development public resources dataset
free software apis public-api
public-apis

Readme

MIT license

Activity

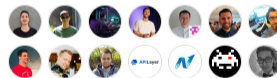
271k stars

4k watching

30.5k forks

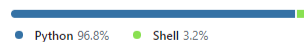
Report repository

Contributors 1,262



+ 1,248 contributors

Languages



apilayer-admin Update README.md ...

2 49d267a on Sep 20 4,529 commits

.github	Add files via upload	last year
scripts	Fix false negative http code 404 in verification	2 years ago
.gitattributes	Ignore .github	6 years ago
.gitignore	Create .gitignore file to Python projects	last year
CONTRIBUTING.md	Add clarification that APIs that require purchase of a device or serv...	2 years ago
LICENSE	Update year to 2022	2 years ago
README.md	Update README.md	3 months ago

README.md

Public APIs

A collective list of free APIs for use in software and web development

Status

Number of Categories 51 Number of APIs 1427

Tests of push & pull failing Validate links failing Tests of validate package passing

The Project

[Contributing Guide](#) • [API for this project](#) • [Issues](#) • [Pull Requests](#) • [License](#)

Alternative sites for the project (unofficials)

[Free APIs](#) • [Dev Resources](#) • [Public APIs Site](#) • [Apihouse](#) • [Collective APIs](#)

05

Data marketplaces



AWS Data Exchange

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AWS integration



Streamlined data procurement
and governance



Easy to use for data files, tables,
and APIs

[AWS re:Invent](#)

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AWS Data Exchange advantage

AWS Data Exchange is on a mission to increase speed to value for third-party data sets in the cloud.

There is no other place where customers can find [data files](#), [data tables](#), and [data APIs](#) from a vast portfolio of [third-party data sets](#). We continuously innovate to make the world's third-party data easy to find in one data catalog, simple to subscribe to with consistent pricing options, and seamless to use with AWS data and analytics and machine learning services.

[Learn why so many choose AWS Data Exchange](#)

LEARN ABOUT
AWS DATA EXCHANGE

Introduction to AWS Data Exchange | (2:57)

211 results

About COVID-19 Public Datasets BigQuery Public Datasets Program Getting started with COVID-19 Public Datasets	About Cymbal: Google Cloud's demo brand Cymbal Group Synthetic datasets across industries showcasing Google Cloud.	AFSC Open Data Portal NOAA Fisheries research data for the Alaska region	American Community Survey (ACS) United States Census Bureau Detailed US demographic data at various geographic resolutions	Area Deprivation Index (ADI) BroadStreet ADI: An index of socioeconomic status for communities	Austin Crime Data City of Austin City of Austin crime data for 2014 and 2015
Band Protocol Data Cloud Public Datasets - Finance Band Protocol data loaded into BigQuery	Births Data Summary Centers for Disease Control Natality Data from CDC Births	Bitcoin Cash Cryptocurrency Dataset Bitcoin Cash The Bitcoin Cash blockchain loaded to BigQuery	Bitcoin Cryptocurrency Bitcoin Bitcoin blockchain transactions and blocks	BREATHE BioMedical Literature Dataset BREATHE Extensive machine consumable biomed literature dataset	Broad References Broad Institute of MIT and Harvard Human genomics reference files used for sequencing analytics
Catalonia cell coverage Government of Catalonia Cell coverage data collected by the GenCat crowdsourcing app	Census Bureau US Boundaries United States Census Bureau Datasets that define US political and statistical boundaries	Center for Medicare and Medicaid Services - Dual... U.S. Department of Health & Human Services Dual enrollment of Medicare and Medicaid by county	CFPB Consumer Complaint Database Consumer Financial Protection Bureau Complaints about consumer financial products and services	ChEMBL Data Google Patents Public Datasets	Chicago Crime Data City of Chicago Chicago Police Department crime data from 2001 to present
Chicago Taxi Trips City of Chicago	Clemson DICE Lab - TrafficVision Tracklets 2019 Clemson DICE Lab	ClimaCell - CBAM India Weather Forecasts ClimaCell	CMIP 6 NOAA	Cooperative Patent Classification Data Google Patents Public Datasets	country-codes BigQuery Public Data

06

Nonstandard ways
to find

Nonstandard ways to find

- Find data in your company
- GitHub
- European funds
- Web scraping
- Data augmentation
- Synthetic data generation
- Amazon Mechanical Turk (MTurk)
- Papers With Code
- Academic Torrents

Find data in your company

- [Google Marketing Platform \(GMP\)](#)
- [Meta Business Suite](#)
- [Alation Data Catalog](#)
- [Collibra Data Intelligence Cloud](#)
- [Informatica Cloud Data Governance and Catalog](#)

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 **adychn/TMall-CTR-CVR-Prediction**  Star

Use machine learning to predict CTR/CVR TMall dataset.

 Python ·  0 · Updated on Aug 11, 2019



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Regions Initiative

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Activities results:

119 237
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11 830
product innovations

12 955
premises adjusted to the needs

Start > Projects > Przeprowadzenie prac badawczo-rozwojowych nad opracowaniem modułu automatyzacji przeprowadzania testów typu A/B/x w oparciu o rozwiązania machine learning (ML) w celu zwiększenia współczynnika konwersji strony internetowej (landing page)

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The title of the project

Przeprowadzenie prac badawczo-rozwojowych nad opracowaniem modułu automatyzacji przeprowadzania testów typu A/B/x w oparciu o rozwiązania machine learning (ML) w celu zwiększenia współczynnika konwersji strony internetowej (landing page)

category



research, development, innovation



Name of the beneficiary

**LANDINGI SPÓŁKA Z OGRANICZONĄ
ODPOWIEDZIALNOŚCIĄ**

Project value

4 002 278,80 zł

Co-financing from the EU

2 792 761,78 zł

Voivodeship

śląskie

County

m. Katowice

program

**Regionalny Program Operacyjny Województwa Śląskiego
na lata 2014-2020**

action

1.2. Badania Rozwój i innowacje w przedsiębiorstwach

fund

Europejski Fundusz Rozwoju Regionalnego

perspective

2014 - 2020

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Table of Contents

- Abstract
- Introduction
- Problem Description and Related Works
- Data and Methodology
- Experiments

K

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Article

Conversion Rate Prediction Based on Text Readability Analysis of Landing Pages

by Ruslan Kornichuk* and Mariusz Boryczka

Institute of Computer Science, Faculty of Science and Technology, University of Silesia in Katowice, Będzińska 39, 41-200 Sosnowiec, Poland

* Author to whom correspondence should be addressed.

Entropy 2021, 23(11), 1388; <https://doi.org/10.3390/e23111388>

Original submission received: 24 July 2021 / Revised: 21 September 2021 / Accepted: 20 October 2021 / Published: 23 October 2021

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Abstract

Digital marketing has been extensively researched and developed remarkably rapidly over the last decade. Within this field, hundreds of scientific publications and patents have been produced, but the accuracy of prediction technologies leaves much to be desired. Conversion prediction remains a problem for most marketing professionals. In this article, the authors, using a dataset containing landing pages content and their conversions, show that a detailed analysis of text readability is capable of predicting conversion rates. They identify specific features that directly affect conversion and show how marketing professionals can use the results of this work. In their experiments, the authors show that the applied machine learning approach can predict landing page conversion. They built five machine learning models. The accuracy of the built machine learning model using the SVM algorithm is promising for its implementation. Additionally, the interpretation of the results of this model was conducted using the SHAP package. Approximately 60% of purchases are made by nonmembers, and this paper may be suitable for the cold-start problem.

Keywords: classification; conversion rate prediction; landing pages; machine learning; marketing communications; readability indices

1. Introduction

Regardless of whether we run a small business or a large corporation, we probably engage in marketing communications. Marketing communications include advertising, promotions, sales, branding, campaigning, and online promotion.



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Cele programu

1. wzmocnienie innowacyjności przedsiębiorstw
2. wzrost konkurencyjności MŚP
3. cyfrowa i zielona transformacja przedsiębiorstw

Poznaj szczegóły programu



O programie



Nabory wniosków



Prawo i dokumenty



Instytucje w Programie



Usługi informacyjne



Ankieta potrzeb



Analizy i raporty



Promocja programu



Web scraping

Web scraping is an automated method of extracting data from websites. It involves retrieving and transforming information from the web for various purposes, such as data analysis, research, or to create datasets.

Tools and Libraries:

- Requests
- Beautiful Soup
- Selenium
- Requestium
- Scrapy

Data augmentation

Data augmentation is a technique used to artificially increase the size of a dataset by applying various transformations to the existing data.

Common Transformations:

- rotation
- flip (horizontal/vertical)
- cropping, scaling and zooming
- translation
- brightness, contrast, color, and saturation
- adding noise

Synthetic data generation

Synthetic data generation involves creating artificial datasets that mimic real-world data patterns without directly using authentic data instances.

Generation methods:

- generative AI
- rule-based generation
- interpolation and extrapolation

Amazon Mechanical Turk

Access a global, on-demand, 24x7 workforce

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Looking for data labeling solutions to power Machine Learning models?

Amazon SageMaker Ground Truth allows you to easily build and manage your own data labeling workflows and workforce. Or, use Ground Truth Plus, a turnkey data labeling service that provides an expert workforce and manages it on your behalf. Amazon Mechanical Turk is accessible through both Ground Truth and Ground Truth Plus.

[Learn More »](#)

Amazon Mechanical Turk (MTurk) is a crowdsourcing marketplace that makes it easier for individuals and businesses to outsource their processes and jobs to a distributed workforce who can perform these tasks virtually. This could include anything from conducting simple data validation and research to more subjective tasks like survey participation, content moderation, and more. MTurk enables companies to harness the collective intelligence, skills, and insights from a global workforce to streamline business processes, augment data collection and analysis, and accelerate machine learning development.

While technology continues to improve, there are still many things that human beings can do much more effectively than computers, such as moderating content, performing data deduplication, or research. Traditionally, tasks like this have been accomplished by hiring a large temporary workforce, which is time consuming, expensive and difficult to scale, or have gone undone. Crowdsourcing is a good way to break down a manual, time-consuming project into smaller, more manageable tasks to be completed by distributed workers over the Internet (also known as 'microtasks').

Benefits

Optimize efficiency

MTurk is well-suited to take on simple and repetitive tasks

Increase flexibility

Scaling up and down a workforce isn't the easiest

Reduce cost

MTurk offers a way to effectively manage labor and



Search



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Datasets

Methods

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Texts	2406
Videos	819
Audio	375
Medical	317
3D	279

Filter by Task

Question Answering	351
Semantic Segmentation	288
Object Detection	244
Image Classification	232
Language Modelling	149
Text Generation	140



CIFAR-10

The CIFAR-10 dataset (Canadian Institute for Advanced Research, 10 classes) is a subset of the Tiny Images dataset and consists of 60000 32x32 color images. The images are labelled with...

13,019 PAPERS • 74 BENCHMARKS



ImageNet

The ImageNet dataset contains 14,197,122 annotated images according to the WordNet hierarchy. Since 2010 the dataset is used in the ImageNet Large Scale Visual Recognition Challenge...

12,533 PAPERS • 47 BENCHMARKS



COCO (Microsoft Common Objects in Context)

The MS COCO (Microsoft Common Objects in Context) dataset is a large-scale object detection, segmentation, key-point detection, and captioning dataset. The dataset consists of 328K...

9,194 PAPERS • 86 BENCHMARKS



CIFAR-100

The CIFAR-100 dataset (Canadian Institute for Advanced Research, 100 classes) is a subset of the Tiny Images dataset and consists of 60000 32x32 color images. The 100 classes in the...

6,919 PAPERS • 50 BENCHMARKS



MNIST

The MNIST database (Modified National Institute of Standards and Technology database) is a large collection of handwritten digits. It has a training set of 60,000 examples, and a test set of...

6,672 PAPERS • 51 BENCHMARKS



Cityscapes

Cityscapes is a large-scale database which focuses on semantic understanding of urban street scenes. It provides semantic, instance-wise, and dense pixel annotations for 30 classes grouped...

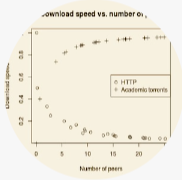
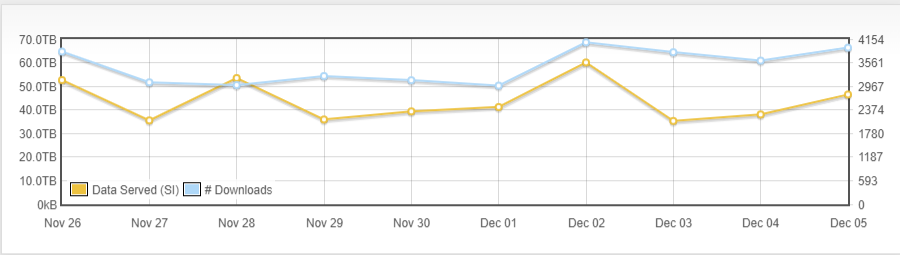
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FAQ

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IS YOUR ORGANIZATION TRANSPARENT? HOW CAN I FIND OUT WHERE MY MONEY WILL BE DIRECTED?



tinyurl.com/PYTECHDATA



07

Q&A session
