50 Popular Python open-source projects on GitHub in 2018

Kazz Yokomizo

This post is curated by IssueHunt that a crowdfunding and sourcing platform for open-source projects.

Anyone can fund any issues on GitHub and these money will be distributed to maintainers and contributors.

1) TensorFlow Models

If you are interested in Machine learning and Deep learning, you must have heard about the TensorFlow.

TensorFlow Models is the open-source repository to find many libraries and models related to deep learning.

GitHub: https://github.com/tensorflow/models

2) Keras

Keras is a high-level neural networks API, written in Python and capable of running on top of TensorFlow, CNTK, or Theano.

It was developed with a focus on enabling fast experimentation.

GitHub: https://github.com/keras-team/keras

3) Flask

Flask is a lightweight WSGI web application framework.

It is designed to make getting started quick and easy, with the ability to scale up to complex applications.

It began as a simple wrapper around Werkzeug and Jinja and has become one of the most popular Python web application frameworks.

GitHub: https://github.com/pallets/flask

4) scikit-learn

scikit-learn is a Python module for machine learning built on top of SciPy and distributed under the 3-Clause BSD license.

GitHub: https://github.com/scikit-learn

5) Zulip

Zulip is a powerful, open source group chat application that combines the immediacy of real-time chat with the productivity benefits of threaded conversations. Zulip is used by open source projects, Fortune 500 companies, large standards bodies, and others who need a real-time chat system that allows users to easily process hundreds or thousands of messages a day. With over 300 contributors merging over 500 commits a month, Zulip is also the largest and fastest growing open source group chat project.

GitHub: https://github.com/zulip/zulip

6) Django

Django is a high-level Python Web framework that encourages rapid development and clean, pragmatic design.

GitHub: https://github.com/django/django

7) Rebound

Want to save your time during coding session when you get a bug and you want to search it on Stack Overflow? Rebound is a command-line tool that instantly fetches Stack Overflow results when you get a compiler error.

This is very handy library for programmers.

GitHub: https://github.com/shobrook/rebound

8) Google Images Download

This is a command line python program to search keywords/key-phrases on Google Images and optionally download images to your computer.

You can also invoke this script from another python file.

GitHub: https://github.com/hardikvasa/google-images-download

9) YouTube-dl

Youtube-dl—download videos from youtube.com or other video platforms.

GitHub: https://github.com/rg3/youtube-dl

10) System Design Primer

This repo is an organized collection of resources to help you learn how to build systems at scale.

GitHub: https://github.com/donnemartin/system-design-primer

11) Mask R-CNN

Mask R-CNN is for object detection and segmentation. This is an implementation of Mask R-CNN on Python 3, Keras, and TensorFlow. The model generates bounding boxes and segmentation

masks for each instance of an object in the image. It's based on Feature Pyramid Network (FPN) and a ResNet101 backbone.

GitHub: https://github.com/matterport/Mask_RCNN

12) Face Recognition

Recognize and manipulate faces from Python or from the command line with the world's simplest face recognition library. This also provides a simple face_recognition command line tool that lets you do face recognition on a folder of images from the command line!

GitHub: https://github.com/ageitgey/face_recognition

13) snallygaster

Tool to scan for secret files on HTTP servers.

GitHub: https://github.com/hannob/snallygaster

14) Ansible

Ansible is a radically simple IT automation system. It handles configuration-management, application deployment, cloud provisioning, ad-hoc task-execution, and multinode orchestration—including trivializing things like zero-downtime rolling updates with load balancers.

GitHub: https://github.com/ansible/ansible

15) Detectron

Detectron is Facebook AI Research's software system that implements state-of-the-art object detection algorithms, including Mask R-CNN. It is written in Python and powered by the Caffe2 deep learning framework.

GitHub: https://github.com/facebookresearch/Detectron

16) asciinema

Terminal session recorder and the best companion of asciinema.org.

GitHub: https://github.com/asciinema/asciinema

17) HTTPie

HTTPie is a command line HTTP client. Its goal is to make CLI interaction with web services as human-friendly as possible. It provides a simple http command that allows for sending arbitrary HTTP requests using a simple and natural syntax, and displays colorized output. HTTPie can be used for testing, debugging, and generally interacting with HTTP servers.

GitHub: https://github.com/jakubroztocil/httpie

18) You-Get

You-Get is a tiny command-line utility to download media contents (videos, audios, images) from

the Web, in case there is no other handy way to do it.

GitHub: https://github.com/soimort/you-get

19) Sentry

Sentry fundamentally is a service that helps you monitor and fix crashes in realtime. The server is in Python, but it contains a full API for sending events from any language, in any application.

GitHub: https://github.com/getsentry/sentry

20) Tornado

Tornado is a Python web framework and asynchronous networking library, originally developed at FriendFeed. By using non-blocking network I/O, Tornado can scale to tens of thousands of open connections, making it ideal for long polling, WebSockets, and other applications that require a long-lived connection to each user.

GitHub: https://github.com/tornadoweb/tornado

21) Magenta

Magenta is a research project exploring the role of machine learning in the process of creating art and music. Primarily this involves developing new deep learning and reinforcement learning algorithms for generating songs, images, drawings, and other materials. But it's also an exploration in building smart tools and interfaces that allow artists and musicians to extend their processes using these models.

GitHub: https://github.com/tensorflow/magenta

22) ZeroNet

Make decentralized websites using Bitcoin crypto and the BitTorrent network.

GitHub: https://github.com/HelloZeroNet/ZeroNet

23) Gym

OpenAI Gym is a toolkit for developing and comparing reinforcement learning algorithms. This is the gym open-source library, which gives you access to a standardized set of environments.

GitHub: https://github.com/openai/gym

24) Pandas

Pandas is a Python package providing fast, flexible, and expressive data structures designed to

make working with “relational” or “labeled” data both easy and intuitive. It aims to be the fundamental high-level building block for doing practical, real world data analysis in Python. Additionally, it has the broader goal of becoming the most powerful and flexible open source data analysis/manipulation tool available in any language. It is already well on its way toward this goal.

GitHub: https://github.com/pandas-dev/pandas

25) Luigi

Luigi is a Python package that helps you build complex pipelines of batch jobs. It handles dependency resolution, workflow management, visualization, handling failures, command line integration, and much more.

GitHub: https://github.com/spotify/luigi

26) spaCy

spaCy is a library for advanced Natural Language Processing in Python and Cython. It’s built on the very latest research, and was designed from day one to be used in real products. spaCy comes with pre-trained statistical models and word vectors, and currently supports tokenization for 20+ languages. It features the fastest syntactic parser in the world, convolutional neural network models for tagging, parsing and named entity recognition and easy deep learning integration.

GitHub: https://github.com/explosion/spaCy

27) Theano

Theano is a Python library that allows you to define, optimize, and evaluate mathematical expressions involving multi-dimensional arrays efficiently. It can use GPUs and perform efficient symbolic differentiation.

GitHub: https://github.com/Theano/Theano

28) TFlearn

TFlearn is a modular and transparent deep learning library built on top of Tensorflow. It was designed to provide a higher-level API to TensorFlow in order to facilitate and speed-up experimentations, while remaining fully transparent and compatible with it.

GitHub: https://github.com/tflearn/tflearn

29) Kivy

Kivy is an open source, cross-platform Python framework for the development of applications that make use of innovative, multi-touch user interfaces. The aim is to allow for quick and easy interaction design and rapid prototyping whilst making your code reusable and deploy-able.

GitHub: https://github.com/kivy/kivy

30) Mailpile

Mailpile is a modern, fast web-mail client with user-friendly encryption and privacy features. The development of Mailpile is funded by a large community of backers and all code related to the project is and will be released under an OSI approved Free Software license.

GitHub: https://github.com/mailpile/Mailpile

31) Matplotlib

Matplotlib is a Python 2D plotting library which produces publication-quality figures in a variety of hardcopy formats and interactive environments across platforms. Matplotlib can be used in Python scripts, the Python and IPython shell, web application servers, and various graphical user interface toolkits.

GitHub: https://github.com/matplotlib/matplotlib

32) YAPF

YAPF takes the code and reformats it to the best formatting that conforms to the style guide, even if the original code didn't violate the style guide.

GitHub: https://github.com/google/yapf

33) Cookiecutter

A command-line utility that creates projects from cookiecutters (project templates), e.g. creating a Python package project from a Python package project template.

GitHub: https://github.com/audreyr/cookiecutter

34) HTTP Prompt

HTTP Prompt is an interactive command-line HTTP client featuring autocomplete and syntax highlighting, built on HTTPie and prompt_toolkit.

GitHub: https://github.com/eliangcs/http-prompt

35) speedtest-cli

Command line interface for testing internet bandwidth using speedtest.net.

GitHub: https://github.com/sivel/speedtest-cli

📢IssueHunt

This post is curated by IssueHunt that a crowdfunding and sourcing platform for open-source projects.

Anyone can fund any issues on GitHub and these money will be distributed to maintainers and contributors.

https://issuehunt.io/

36) Pattern

Pattern is a web mining module for Python. It has tools for Data Mining, Natural Language Processing, Machine Learning, and Network Analysis.

GitHub: https://github.com/clips/pattern

37) Gooey (Beta)

Turn (almost) any Python 2 or 3 Console Program into a GUI application with one line.

GitHub: https://github.com/chriskiehl/Gooey

38) Wagtail CMS

Wagtail is a content management system built on Django. It's focused on user experience, and offers precise control for designers and developers.

GitHub: https://github.com/wagtail/wagtail

39) Bottle

Bottle is a fast, simple and lightweight WSGI micro web-framework for Python. It is distributed as a single file module and has no dependencies other than the Python Standard Library.

GitHub: https://github.com/bottlepy/bottle

40) Prophet (by Facebook)

Prophet is a procedure for forecasting time series data. It is based on an additive model where non-linear trends are fit with yearly and weekly seasonality, plus holidays. It works best with daily periodicity data with at least one year of historical data. Prophet is robust to missing data, shifts in the trend, and large outliers.

GitHub: https://github.com/facebook/prophet

41) Falcon

Falcon is a reliable, high-performance Python web framework for building large-scale app backends and microservices. It encourages the REST architectural style, and tries to do as little as

possible while remaining highly effective.

GitHub: https://github.com/falconry/falcon

42) Mopidy

Mopidy is an extensible music server written in Python. Mopidy plays music from local disk, Spotify, SoundCloud, Google Play Music, and more. You edit the playlist from any phone, tablet, or computer using a range of MPD and web clients.

GitHub: https://github.com/mopidy/mopidy

43) Hug

Hug aims to make developing Python driven APIs as simple as possible, but no simpler. As a result, it drastically simplifies Python API development.

GitHub: https://github.com/timothycrosley/hug

44) SymPy

A Python library for symbolic mathematics.

GitHub: https://github.com/sympy/sympy

45) Dash

Dash is a Python framework for building analytical web applications. No JavaScript required.

https://github.com/plotly/dash

46) Visdom

A flexible tool for creating, organizing, and sharing visualizations of live, rich data. Supports Torch and Numpy.

GitHub: https://github.com/facebookresearch/visdom

47) LUMINOTH

Luminoth is an open source toolkit for **computer vision**. Currently, we support object detection, but we are aiming for much more. It is built in Python, using TensorFlow and Sonnet.

GitHub: https://github.com/tryolabs/luminoth

48) Pygame

Pygame is a cross-platfrom library designed to make it easy to write multimedia software, such as games, in Python.

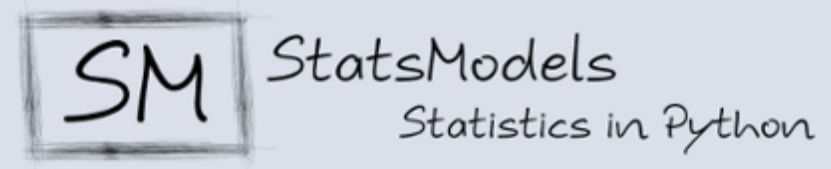
GitHub: https://github.com/pygame/pygame

49) Requests

Requests is a Python Library that lets you send HTTP/1.1 requests, add headers, form data, multipart files, and parameters with simple Python dictionaries. It also lets you access the response data in the same way.

GitHub: https://github.com/requests/requests

50) Statsmodels



Statsmodels is a Python package that provides a complement to scipy for statistical computations including descriptive statistics and estimation and inference for statistical models.

GitHub: https://github.com/statsmodels/statsmodels

This post is curated by IssueHunt that a crowdfunding and sourcing platform for open-source projects.

Anyone can fund any issues on GitHub and these money will be distributed to maintainers and contributors.

https://issuehunt.io/