

Open-Source Projects

Because Python follows the open-source model of developing programs, there are a large number of on-going projects to develop tools in Python. You can participate in this process, all of the code for these projects are available to look at on a public repository (called *GitHub*), and you can look at the software that has been developed so far to see what large amounts of code looks like, and as time goes on you should consider contributing some code to one of these projects.

OpenCV

<https://opencv.org/>

Computer Vision is the study of developing software to help computers identify objects in images and videos, for example, inspecting bottles in a manufacturing production line, or facial recognition software. OpenCV was originally written in a combination of two programming languages (C and C++), but now provides interfaces to many other programming languages, including Python, so it's possible to develop features in Python and integrate them into OpenCV.

Keras

<https://keras.io/>

Artificial Intelligence is the study of developing software to help computers behave in a manner that appears intelligent, for example, medical diagnosis or automated characters in computer games. Keras was developed in Python in 2015 and provides a wide range of features that allows programmers to create complex and easily extendable artificially intelligent systems.

Scikit-learn

<https://scikit-learn.org/stable/>

Scikit-learn is also a suite of software for developing artificially intelligent systems, implemented mainly in Python. It works well with a lot of other Python libraries, and features various kinds of algorithms, including classification, regression and clustering.

Django

<https://www.djangoproject.com/>

Django is a framework to help develop database-driven websites. It is developed in such a way that it allows other people's code to be plugged into your code in a really simple way. There are thousands of packages available to extend the framework's original behaviour, that provide additional tools.

For more project ideas, check out this link:

<https://www.upgrad.com/blog/python-open-source-project-ideas-topics/>