**Image processing** is a method to perform some operations on an image, in order to get an enhanced image or to extract some useful information from it. It is a type of signal processing in which input is an image and output may be image or characteristics/features associated with that image.

Refer this link for brief overview of image processing:

|  |
| --- |
| <https://youtu.be/QMLbTEQJCaI> |

Techniques which are used in digital image processing:

* Anisotropic diffusion.
* Hidden Markov models.
* Image editing.
* Image restoration.
* Independent component **analysis**.
* Linear filtering.
* Neural networks.
* Partial differential equations.

Image Processing in Python:

There are a lot of tutorials available for learning to use python for Image Processing. Below are the resources for Image Processing using Python: Image Processing in OpenCV : OpenCV is a library mainly focused on real-time computer vision. You can learn to use it with python.

Integration of Python with Android:

SL4A allows you to edit scripts and execute interactive interpreters directly on an Android device, but Python for Android can take a Python application and use it, in conjunction with the Android SDK/NSK, to create a single little Android APK file, including your application, libraries, and of course the Python code.

Python on Android uses a native CPython build, so its performance and compatibility is very good. ... The SL4A/Py4A-based applications will run on Android only, but will be able to utilize Android-specific APIs. Both approaches can also be combined.