

## Pre-Requisites

1. To complete this project, you must require the following software's, concepts, and packages

- **Anaconda (IDLE / Spyder / PyCharm)(Python 3.7):**
  - o [Link](https://www.anaconda.com/products/distribution) <https://www.anaconda.com/products/distribution>
- Computer Vision
  - o [Link](https://opencv-python-tutroals.readthedocs.io/en/latest/py_tutorials/py_setup/py_table_of_contents_setup/py_table_of_contents_setup.html) [https://opencv-python-tutroals.readthedocs.io/en/latest/py\\_tutorials/py\\_setup/py\\_table\\_of\\_contents\\_setup/py\\_table\\_of\\_contents\\_setup.html](https://opencv-python-tutroals.readthedocs.io/en/latest/py_tutorials/py_setup/py_table_of_contents_setup/py_table_of_contents_setup.html)
- Flask Concepts
  - [Link](https://www.tutorialspoint.com/flask/index.htm) <https://www.tutorialspoint.com/flask/index.htm>

2. Python Packages

3. **Tensorflow**- This package is used as backend support to Keras

4. **Keras**-This package is used for building Neural Network layers

5. **OpenCV**-This package is used for image processing

6. **Flask**- To build a web application

If you are using anaconda navigator, follow the below steps to download the required packages:

- Open anaconda prompt as administrator.
- Type "**pip install tensorflow==1.14.0**" and click enter.
- Type "**pip install keras=2.2.4**" and click enter.
- Type "**pip install opencv-python**" and click enter.
- Type "**pip install imutils**" and click enter.
- Type "**pip install flask**" and click enter.