Installing Libraries

- Command Prompt
  - using pip command — pip install library_name
    - pip install pandas
    - pip install opencv-python
    - pip install matplotlib
- anaconda prompt
  - conda install -c conda-forge opencv
  - conda install scikit-learn
  - conda install -c conda-forge keras

```
C:\Users\P B SHANMATHI>pip install pandas
Collecting pandas
  Downloading pandas-1.3.3-cp37-cp37m-win_amd64.whl (10.0 MB)
     |                                | 10.0 MB ...
Requirement already satisfied: python-dateutil>=2.7.3 in c:\python37\lib\site-packages (from pandas) (2.8.2)
Requirement already satisfied: numpy>=1.17.3 in c:\python37\lib\site-packages (from pandas) (1.21.2)
Collecting pytz>=2017.3
  Downloading pytz-2021.1-py2.py3-none-any.whl (510 kB)
     |                                | 510 kB ...
Requirement already satisfied: six>=1.5 in c:\python37\lib\site-packages (from python-dateutil>=2.7.3->pandas) (1.16.0)
Installing collected packages: pytz, pandas
Successfully installed pandas-1.3.3 pytz-2021.1
WARNING: You are using pip version 20.1.1; however, version 21.2.4 is available.
You should consider upgrading via the 'c:\python37\python.exe -m pip install --upgrade pip' command.
```
pip install pandas

```
Microsoft Windows [Version 10.0.19042.662]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\P B SHANMATHI>pip install opencv-python
Collecting opencv-python
  Using cached opencv_python-4.5.3.56-cp37-cp37m-win_amd64.whl (34.9 MB)
Requirement already satisfied: numpy>=1.14.5 in c:\python37\lib\site-packages (from opencv-python) (1.21.2)
Installing collected packages: opencv-python
Successfully installed opencv-python-4.5.3.56
WARNING: You are using pip version 20.1.1; however, version 21.2.4 is available.
You should consider upgrading via the 'c:\python37\python.exe -m pip install --upgrade pip' command.

C:\Users\P B SHANMATHI>
```
pip install opencv-python

```
C:\Users\P B SHANMATHI>pip install matplotlib
Collecting matplotlib
  Downloading matplotlib-3.4.3-cp37-cp37m-win_amd64.whl (7.2 MB)
     |                                | 7.2 MB 6.8 MB/s
Collecting kiwisolver>=1.0.1
  Downloading kiwisolver-1.3.2-cp37-cp37m-win_amd64.whl (51 kB)
     |                                | 51 kB 161 kB/s
Collecting cycler>=0.10
  Downloading cycler-0.10.0-py2.py3-none-any.whl (6.5 kB)
Collecting python-dateutil>=2.7
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
     |                                | 247 kB ...
Collecting pyparsing>=2.2.1
  Downloading pyparsing-2.4.7-py2.py3-none-any.whl (67 kB)
     |                                | 67 kB ...
Collecting pillow>=6.2.0
  Downloading Pillow-8.3.2-cp37-cp37m-win_amd64.whl (3.2 MB)
     |                                | 3.2 MB 6.8 MB/s
Requirement already satisfied: numpy>=1.16 in c:\python37\lib\site-packages (from matplotlib) (1.21.2)
Requirement already satisfied: six in c:\python37\lib\site-packages (from cycler>=0.10->matplotlib) (1.16.0)
Installing collected packages: kiwisolver, cycler, python-dateutil, pyparsing, pillow, matplotlib
Successfully installed cycler-0.10.0 kiwisolver-1.3.2 matplotlib-3.4.3 pillow-8.3.2 pyparsing-2.4.7 python-dateutil-2.8.2
WARNING: You are using pip version 20.1.1; however, version 21.2.4 is available.
You should consider upgrading via the 'c:\python37\python.exe -m pip install --upgrade pip' command.
```
pip install matplotlib

Anaconda Prompt (Anaconda)
```
(base) C:\Users\P B SHANMATHI>conda install -c conda-forge opencv
Collecting package metadata (current_repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: C:\Anaconda

  added / updated specs:
    - opencv


The following packages will be downloaded:

    package                    |            build
    ---------------------------|-----------------
    libopencv-4.0.1            |       hbb9e17c_0        28.6 MB
    opencv-4.0.1               |       py38h2a7c758_0        22 KB
    py-opencv-4.0.1            |       py38he44ac1e_0       1.5 MB
    ---------------------------|-----------------
                                          Total:        30.1 MB

The following NEW packages will be INSTALLED:

  libopencv          pkgs/main/win-64::libopencv-4.0.1-hbb9e17c_0
  opencv             pkgs/main/win-64::opencv-4.0.1-py38h2a7c758_0
  py-opencv          pkgs/main/win-64::py-opencv-4.0.1-py38he44ac1e_0


Proceed ([y]/n)? y

Downloading and Extracting Packages
libopencv-4.0.1      | 28.6 MB   | ######################################## | 100%
py-opencv-4.0.1      | 1.5 MB    | ######################################## | 100%
opencv-4.0.1         | 22 KB     | ######################################## | 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
```
conda install -c conda-forge opencv

Anaconda Prompt (Anaconda)
```
(base) C:\Users\P B SHANMATHI>conda install scikit-learn
Collecting package metadata (current_repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: C:\Anaconda

  added / updated specs:
    - scikit-learn


The following packages will be downloaded:

    package                    |            build
    ---------------------------|-----------------
    conda-4.10.3               |       py38haa95532_0        2.9 MB
    ---------------------------|-----------------
                                          Total:         2.9 MB

The following packages will be SUPERSEDED by a higher-priority channel:

  conda              conda-forge::conda-4.10.3-py38haa244f~ --> pkgs/main::conda-4.10.3-py38haa95532_0


Proceed ([y]/n)? y

Downloading and Extracting Packages
conda-4.10.3         | 2.9 MB    | ######################################## | 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done

(base) C:\Users\P B SHANMATHI>
```
conda install scikit-learn

Anaconda Prompt (Anaconda)
```
(base) C:\Users\P B SHANMATHI>conda install -c conda-forge keras
Collecting package metadata (current_repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: C:\Anaconda

  added / updated specs:
    - keras


The following packages will be downloaded:

    package                    |            build
    ---------------------------|-----------------
    keras-2.6.0                |       pyhd8ed1ab_0        822 KB  conda-forge
    ---------------------------|-----------------
                                          Total:         822 KB

The following NEW packages will be INSTALLED:

  keras              conda-forge/noarch::keras-2.6.0-pyhd8ed1ab_0


Proceed ([y]/n)? y

Downloading and Extracting Packages
keras-2.6.0          | 822 KB    | ######################################## | 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done

(base) C:\Users\P B SHANMATHI>
```
conda install -c conda-forge keras