Pre-Requisites

TEAM ID	PNT2022TMID48285
Project Name	Real Time Communication System Powered by AI for Specially Abled
DATE	16 NOVEMBER 2022
Maximum Marks	

Pre-Requisites:(Python Packages)

●   Tensorflow - This package is used as backend support to Keras

●   Keras - This package is used for building Neural Network layers

●   OpenCV-This package is used for image processing

●   Flask- To build a web application
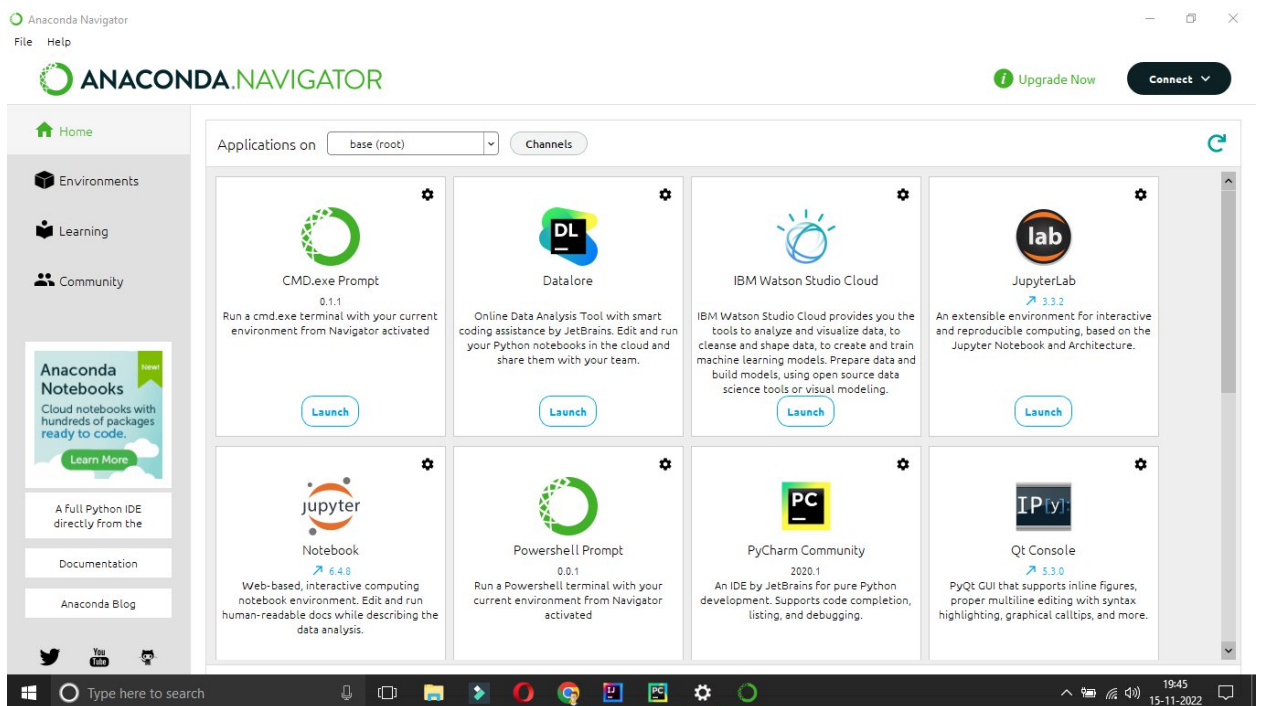
Tensorflow Installation:

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.15063]
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C:\Users\Dinakar>pip install tensorflow
Requirement already satisfied: tensorflow in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (0.12.0)
Requirement already satisfied: numpy>=1.11.0 in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (from tensorflow) (1.23.4)
Requirement already satisfied: protobuf==3.1.0 in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (from tensorflow) (3.1.0)
Requirement already satisfied: six>=1.10.0 in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (from tensorflow) (1.16.0)
Requirement already satisfied: wheel>=0.26 in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (from tensorflow) (0.38.4)
Requirement already satisfied: setuptools in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (from protobuf==3.1.0->tensorflow) (65.5.0)

C:\Users\Dinakar>
```
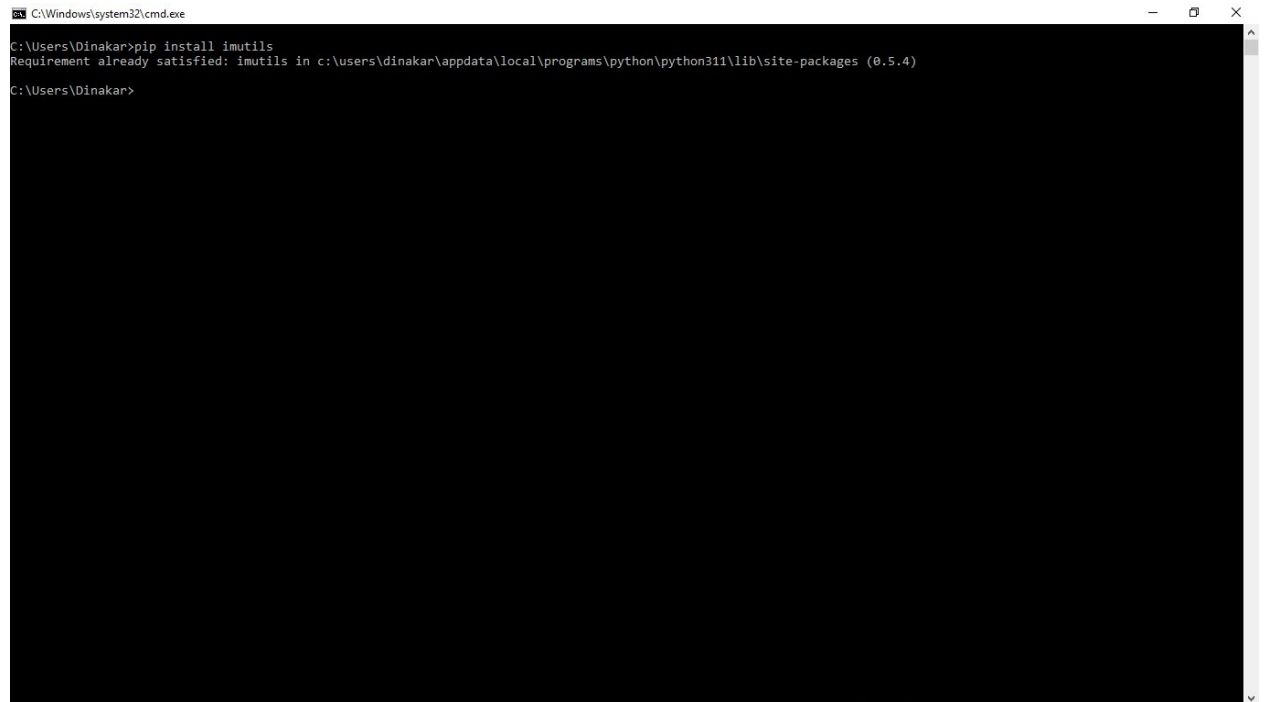
Flask Installation:


```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Dinakar>pip install flask
Requirement already satisfied: flask in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (2.2.2)
Requirement already satisfied: Werkzeug>=2.2.2 in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (from flask) (2.2.2)
Requirement already satisfied: Jinja2>=3.0 in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (from flask) (3.1.2)
Requirement already satisfied: itsdangerous>=2.0 in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (from flask) (2.1.2)
Requirement already satisfied: click>=8.0 in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (from flask) (8.1.3)
Requirement already satisfied: colorama in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (from click>=8.0->flask) (0.4.6)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (from Jinja2>=3.0->flask) (2.1.1)

C:\Users\Dinakar>
```
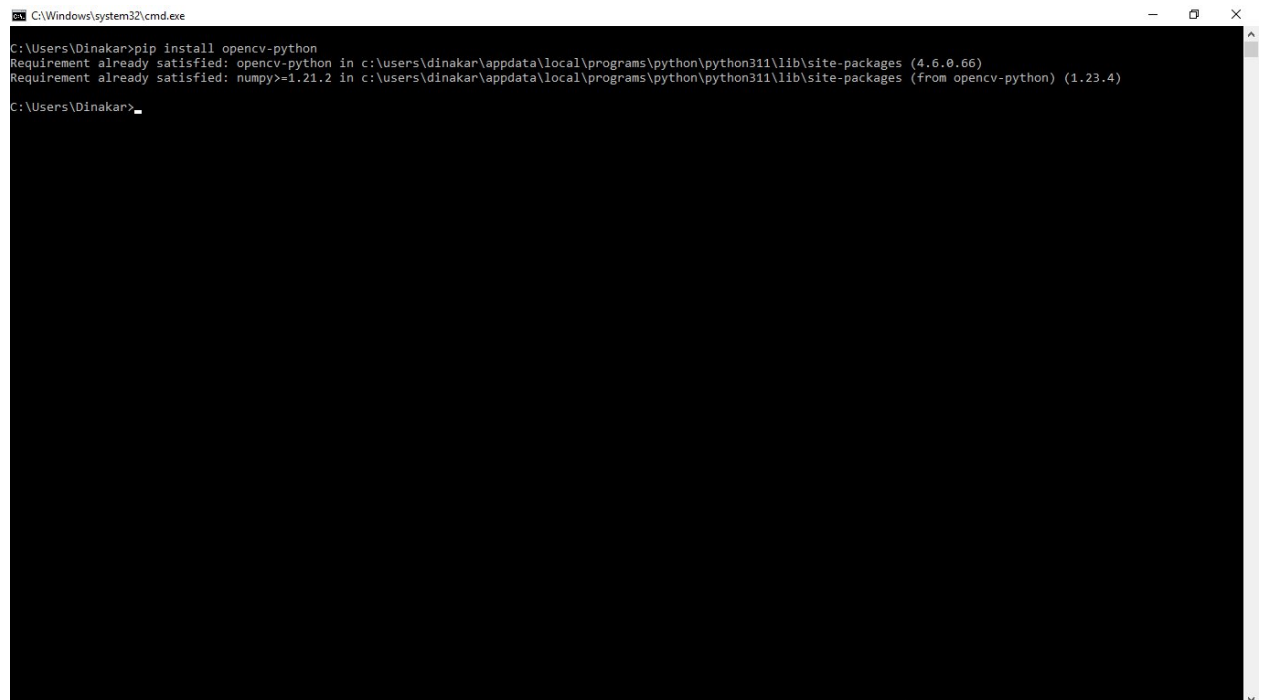
Imutils Installation:

```
C:\Users\Dinakar>pip install imutils
Requirement already satisfied: imutils in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (0.5.4)

C:\Users\Dinakar>
```

OpenCV Python Installation:

```
C:\Users\Dinakar>pip install opencv-python
Requirement already satisfied: opencv-python in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (4.6.0.66)
Requirement already satisfied: numpy>=1.21.2 in c:\users\dinakar\appdata\local\programs\python\python311\lib\site-packages (from opencv-python) (1.23.4)

C:\Users\Dinakar>
```