TEAM ID: PNT2022TMID14806

Installation of python package

i) Install sklearn, numpy and pandas packages

```
C:\Users\admin>pip install sklearn
Requirement already satisfied: sklearn in c:\python310\lib\site-packages (0.0)
Requirement already satisfied: scikit-learn in c:\python310\lib\site-packages (from sklearn) (1.1.2)
Requirement already satisfied: scikit-learn in c:\python310\lib\site-packages (from scikit-learn->sklearn) (1.2.0)
Requirement already satisfied: scipy>=1.3.2 in c:\python310\lib\site-packages (from scikit-learn->sklearn) (1.2.0)
Requirement already satisfied: hreadpoolctl>=2.0.0 in c:\python310\lib\site-packages (from scikit-learn->sklearn) (1.2.1)
Requirement already satisfied: numpy>=1.17.3 in c:\python310\lib\site-packages (from scikit-learn->sklearn) (3.1.0)
Requirement already satisfied: numpy>=1.17.3 in c:\python310\lib\site-packages (from scikit-learn->sklearn) (1.23.3)

[notice] A new release of pip available: 22.2.2 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\admin>pip install numpy
Requirement already satisfied: numpy in c:\python310\lib\site-packages (1.23.3)

[notice] A new release of pip available: 22.2.2 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\admin>pip install pandas
Requirement already satisfied: putz>=2020.1 in c:\python310\lib\site-packages (from pandas) (2.8.2)
Requirement already satisfied: numpy>=1.21.0 in c:\python310\lib\site-packages (from pandas) (2.8.2)
Requirement already satisfied: numpy>=1.21.0 in c:\python310\lib\site-packages (from pandas) (1.23.3)
Requirement already satisfied: six>=1.5 in c:\python310\lib\site-packages (from python-dateutil>=2.8.1->pandas) (1.16.0)

[notice] A new release of pip available: 22.2.2 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\admin>
```

ii) Install matplotlib and seaborn packages

```
C:\Users\admin>pip install matplotlib
Requirement already satisfied: matplotlib in c:\python310\lib\site-packages (3.6.0)
Requirement already satisfied: matplotlib in c:\python310\lib\site-packages (from matplotlib) (4.37.4)
Requirement already satisfied: matplotlib in c:\python310\lib\site-packages (from matplotlib) (1.4.4)
Requirement already satisfied: New pip in c:\python310\lib\site-packages (from matplotlib) (2.0.2)
Requirement already satisfied: packaging>=20.0 in c:\python310\lib\site-packages (from matplotlib) (2.0.5)
Requirement already satisfied: packaging>=20.0 in c:\python310\lib\site-packages (from matplotlib) (1.0.5)
Requirement already satisfied: packaging>=2.0 in c:\python310\lib\site-packages (from matplotlib) (3.0.9)
Requirement already satisfied: packaging>=2.2.1 in c:\python310\lib\site-packages (from matplotlib) (3.0.9)
Requirement already satisfied: packaging>=2.2.1 in c:\python310\lib\site-packages (from matplotlib) (3.0.9)
Requirement already satisfied: six>=1.5 in c:\python310\lib\site-packages (from matplotlib) (2.2.3)

[notic:] A new release of pip available: 22.2.2 -> 22.3.1
[notic:] To update, run: python.exe == pip install --upgrade pip

C:\Users\admin>pip install seaborn
Requirement already satisfied: sixplotlib>=3.1 in c:\python310\lib\site-packages (from seaborn) (1.5.0)
Requirement already satisfied: sixplotlib>=3.1 in c:\python310\lib\site-packages (from seaborn) (1.2.3)
Requirement already satisfied: swipside: packaging>=2.2.1 in c:\python310\lib\site-packages (from matplotlib>=3.1->seaborn) (1.0.5)
Requirement already satisfied: swipside: packaging>=2.2.1 in c:\python310\lib\site-packages (from matplotlib>=3.1->seaborn) (1.0.5)
Requirement already satisfied: sylpansing>=2.2.1 in c:\python310\lib\site-packages (from matplotlib>=3.1->seaborn) (1.0.5)
Requirement already satisfied: sylpansing>=2.2.1 in c:\python310\lib\site-packages (from matplotlib>=3.1->seaborn) (2.3)
Requirement already satisfied: sylpansing>=2.2.0 in c:\python310\lib\site-packages (from matplotlib>=3.1->se
```

iii) Checking whether the package is installed and import packages to python

```
C:\Users\admin>ython
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import numpy
>>> import pandas
>>> import seaborn
>>> quit()
C:\Users\admin>
```

iv) Install tensorflow package

```
C. Whentonity in the Comment of the
```

v) Install keras and opency package

```
C:\Users\admin>pip install keras==2.8.0
Requirement already satisfied: keras==2.8.0 in c:\python310\lib\site-packages (2.8.0)

[notice] A new release of pip available: 22.2.2 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\admin>pip install opencv-python
Requirement already satisfied: opencv-python in c:\python310\lib\site-packages (4.6.0.66)
Requirement already satisfied: upumpy=1.21.2 in c:\python310\lib\site-packages (from opencv-python) (1.23.3)

[notice] A new release of pip available: 22.2.2 -> 22.3.1
[notice] To update, run: python.exe -m pip install --up_rade pip

C:\Users\admin>
```

vi) Checking whether the packages are installed and importing packages in python

```
C:\Users\admin:python
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import tensorflow
2022-11-12 20:08:133.470672: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic libra
ry 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2022-11-12 20:08:133.470906: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do n
ot have a GPU set up on your machine.
>>> import evas
>>> import evas
>>> import cv2
>>> tensorflow.__version__
'2.8.0'
>>> cv2.__version__
'4.6.0'
>>> __
'4.6.0'
```