به نام خدا

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نصب تنسرفلو وكراس:

```
:\Users\noor>pip3 install --upgrade tensorflow
Defaulting to user installation because normal site-packages is not writeable
Collecting tensorflow
 Downloading tensorflow-2.5.0rc3-cp39-cp39-win amd64.whl (422.6 MB)
                                     422.6 MB 14 kB/s
Collecting tensorboard~=2.5
 Downloading tensorboard-2.5.0-py3-none-any.whl (6.0 MB)
                                     6.0 MB 3.3 MB/s
Collecting flatbuffers~=1.12.0
 Downloading flatbuffers-1.12-py2.py3-none-any.whl (15 kB)
Collecting protobuf>=3.9.2
 Downloading protobuf-3.16.0-py2.py3-none-any.whl (173 kB)
                                     173 kB 2.2 MB/s
Collecting absl-py~=0.10
 Downloading absl_py-0.12.0-py3-none-any.whl (129 kB)
                                     129 kB 6.4 MB/s
Collecting grpcio~=1.34.0
 Downloading grpcio-1.34.1-cp39-cp39-win_amd64.whl (2.9 MB)
                                     2.9 MB 2.2 MB/s
Collecting keras-preprocessing~=1.1.2
 Downloading Keras_Preprocessing-1.1.2-py2.py3-none-any.whl (42 kB)
                                     42 kB 441 kB/s
Collecting tensorflow-estimator<2.6.0,>=2.5.0rc0
 Downloading tensorflow_estimator-2.5.0rc0-py2.py3-none-any.whl (462 kB)
                                     462 kB 2.2 MB/s
Requirement already satisfied: wheel~=0.35 in c:\users\noor\appdata\roaming\pyth
DW) (0.36.2)
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Collecting six~=1.15.0
 Downloading six-1.15.0-py2.py3-none-any.whl (10 kB)
Collecting numpy~=1.19.2
  Downloading numpy-1.19.5-cp39-cp39-win_amd64.whl (13.3 MB)
                                    | 13.3 MB 2.2 MB/s
Collecting keras-nightly~=2.5.0.dev
 Downloading keras nightly-2.5.0.dev2021032900-py2.py3-none-any.whl (1.2 MB)
                                    1.2 MB 1.1 MB/s
Collecting h5py~=3.1.0
 Downloading h5py-3.1.0-cp39-cp39-win_amd64.whl (2.7 MB)
                                    2.7 MB 1.3 MB/s
Collecting google-pasta~=0.2
 Downloading google_pasta-0.2.0-py3-none-any.whl (57 kB)
                                     57 kB 752 kB/s
Collecting astunparse~=1.6.3
 Downloading astunparse-1.6.3-py2.py3-none-any.whl (12 kB)
Collecting wrapt~=1.12.1
 Downloading wrapt-1.12.1.tar.gz (27 kB)
Collecting opt-einsum~=3.3.0
 Downloading opt_einsum-3.3.0-py3-none-any.whl (65 kB)
                                    65 kB 431 kB/s
Collecting termcolor~=1.1.0
 Downloading termcolor-1.1.0.tar.gz (3.9 kB)
Collecting gast==0.4.0
 Downloading gast-0.4.0-py3-none-any.whl (9.8 kB)
Collecting typing-extensions~=3.7.4
 Downloading typing_extensions-3.7.4.3-py3-none-any.whl (22 kB)
Collecting requests<3,>=2.21.0
 Downloading requests-2.25.1-py2.py3-none-any.whl (61 kB)
                                     61 kB 777 kB/s
Requirement already satis+ied: setuptools>=41.0.0 in c:\program +iles\python39\lib\site
tensorflow) (56.0.0)
Collecting tensorboard-data-server<0.7.0,>=0.6.0
 Downloading tensorboard data server-0.6.1-py3-none-any.whl (2.4 kB)
Collecting google-auth<2,>=1.6.3
 Downloading google_auth-1.30.0-py2.py3-none-any.whl (146 kB)
                                      146 kB 1.1 MB/s
Collecting markdown>=2.6.8
 Downloading Markdown-3.3.4-py3-none-any.whl (97 kB)
                                      97 kB 1.1 MB/s
Collecting google-auth-oauthlib<0.5,>=0.4.1
 Downloading google auth oauthlib-0.4.4-py2.py3-none-any.whl (18 kB)
Collecting tensorboard-plugin-wit>=1.6.0
 Downloading tensorboard_plugin_wit-1.8.0-py3-none-any.whl (781 kB)
                                      781 kB 3.3 MB/s
Collecting werkzeug>=0.11.15
 Downloading Werkzeug-1.0.1-py2.py3-none-any.whl (298 kB)
                                      298 kB 2.2 MB/s
Collecting cachetools<5.0,>=2.0.0
 Downloading cachetools-4.2.2-py3-none-any.whl (11 kB)
ollecting pyasn1-modules>=0.2.1
 Downloading pyasn1_modules-0.2.8-py2.py3-none-any.whl (155 kB)
                                      155 kB 2.2 MB/s
Collecting rsa<5,>=3.1.4
 Downloading rsa-4.7.2-py3-none-any.whl (34 kB)
collecting requests-oauthlib>=0.7.0
 Downloading requests_oauthlib-1.3.0-py2.py3-none-any.whl_(23 kB)
Collecting pyasn1<0.5.0,>=0.4.6
 Downloading pyasn1-0.4.8-py2.py3-none-any.whl (77 kB)
                                      77 kB 345 kB/s
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Collecting urllib3<1.27,>=1.21.1
 Downloading urllib3-1.26.4-py2.py3-none-any.whl (153 kB)
                                  | 153 kB 1.7 MB/s
Collecting certifi>=2017.4.17
 Downloading certifi-2020.12.5-py2.py3-none-any.whl (147 kB)
                                  | 147 kB 1.1 MB/s
Collecting chardet<5,>=3.0.2
Downloading chardet-4.0.0-py2.py3-none-any.whl (178 kB)
                                  | 178 kB 1.3 MB/s
Collecting idna<3,>=2.5
 Downloading idna-2.10-py2.py3-none-any.whl (58 kB)
                                  58 kB 651 kB/s
Collecting oauthlib>=3.0.0
 Downloading oauthlib-3.1.0-py2.py3-none-any.whl (147 kB)
                                  147 kB 2.2 MB/s
Building wheels for collected packages: termcolor, wrapt
 Building wheel for termcolor (setup.py) ... done
 Created wheel for termcolor: filename=termcolor-1.1.0-py3-none-any.whl size=4829 sha256=63e565cc1b9e631fc5365c5a39390
26832c8178b4cb7cda10b311bb517558f
Building wheel for wrapt (setup.py) ... done
 Created wheel for wrapt: filename=wrapt-1.12.1-py3-none-any.whl size=19553 sha256=a5693a05a9f0c0d5f03991b4764dec49468
c76d3039c9a2570c373498e6ee5
Stored in directory: c:\users\noor\appdata\local\pip\cache\wheels\98\23\68\efe259aaca055e93b08e74fbe512819c69a2155c11
3c0f10
uccessfully built termcolor wrapt
nstalling collected packages: urllib3, pyasn1, idna, chardet, certifi, six, rsa, requests, pyasn1-modules, oauthlib,
hetools, requests-oauthlib, google-auth, werkzeug, tensorboard-plugin-wit, tensorboard-data-server, protobuf, numpy,
kdown, grpcio, google-auth-oauthlib, absl-py, wrapt, typing-extensions, termcolor, tensorflow-estimator, tensorboard,
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was unexpected at this time.
C:\Users\noor>pip install numpy scipy
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: numpy in c:\users\noor\appdata\roaming\python\python39\site-packages (1.19.5)
Collecting scipy
 Downloading scipy-1.6.3-cp39-cp39-win_amd64.whl (32.7 MB)
                                      32.7 MB 49 kB/s
Installing collected packages: scipy
Successfully installed scipy-1.6.3
C:\Users\noor>pip install scikit-learn
Defaulting to user installation because normal site-packages is not writeable
Collecting scikit-learn
 Downloading scikit learn-0.24.2-cp39-cp39-win amd64.whl (6.9 MB)
                                       6.9 MB 3.2 MB/s
Requirement already satisfied: numpy>=1.13.3 in c:\users\noor\appdata\roaming\python\python39\site-packages (from scikit
-learn) (1.19.5)
Requirement already satisfied: scipy>=0.19.1 in c:\users\noor\appdata\roaming\python\python39\site-packages (from scikit
-learn) (1.6.3)
Collecting joblib>=0.11
 Downloading joblib-1.0.1-py3-none-any.whl (303 kB)
                                       303 kB 3.3 MB/s
Collecting threadpoolctl>=2.0.0
 Downloading threadpoolctl-2.1.0-py3-none-any.whl (12 kB)
Installing collected packages: threadpoolctl, joblib, scikit-learn
Successfully installed joblib-1.0.1 scikit-learn-0.24.2 threadpoolctl-2.1.0
C:\Users\noor>pip install pillow
Defaulting to user installation because normal site-packages is not writeable
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