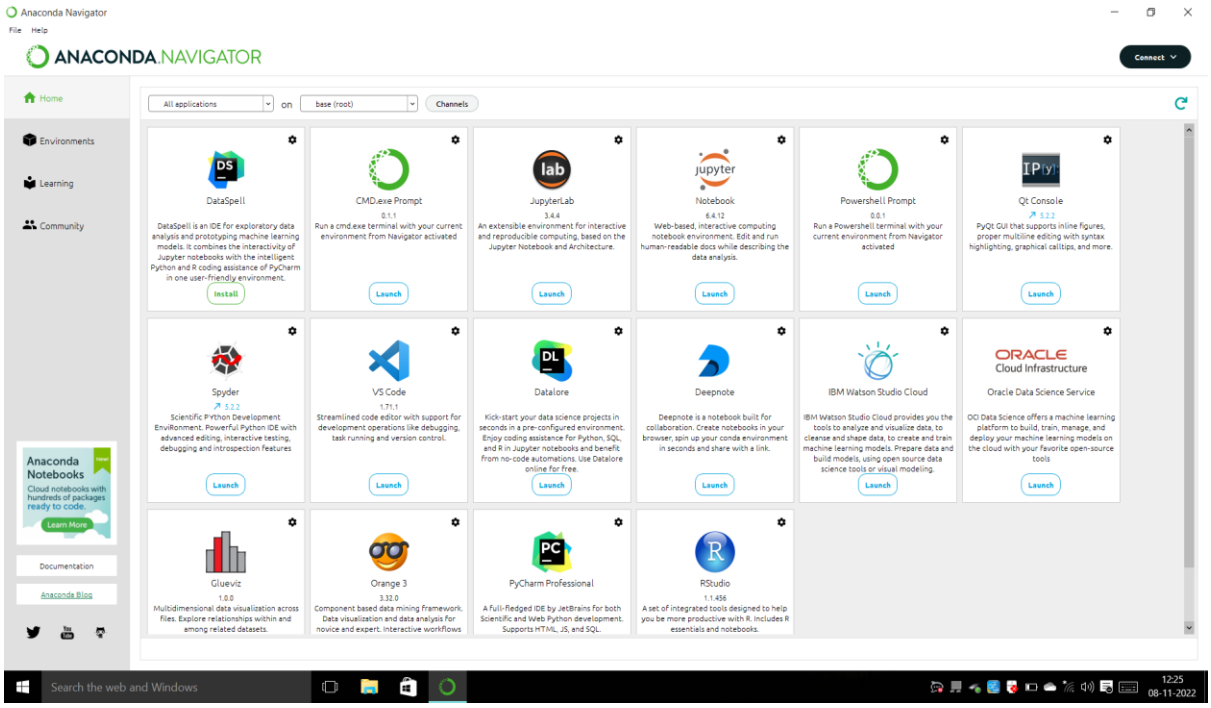
PROJECT DEVELOPMENT
PREREQUISITES

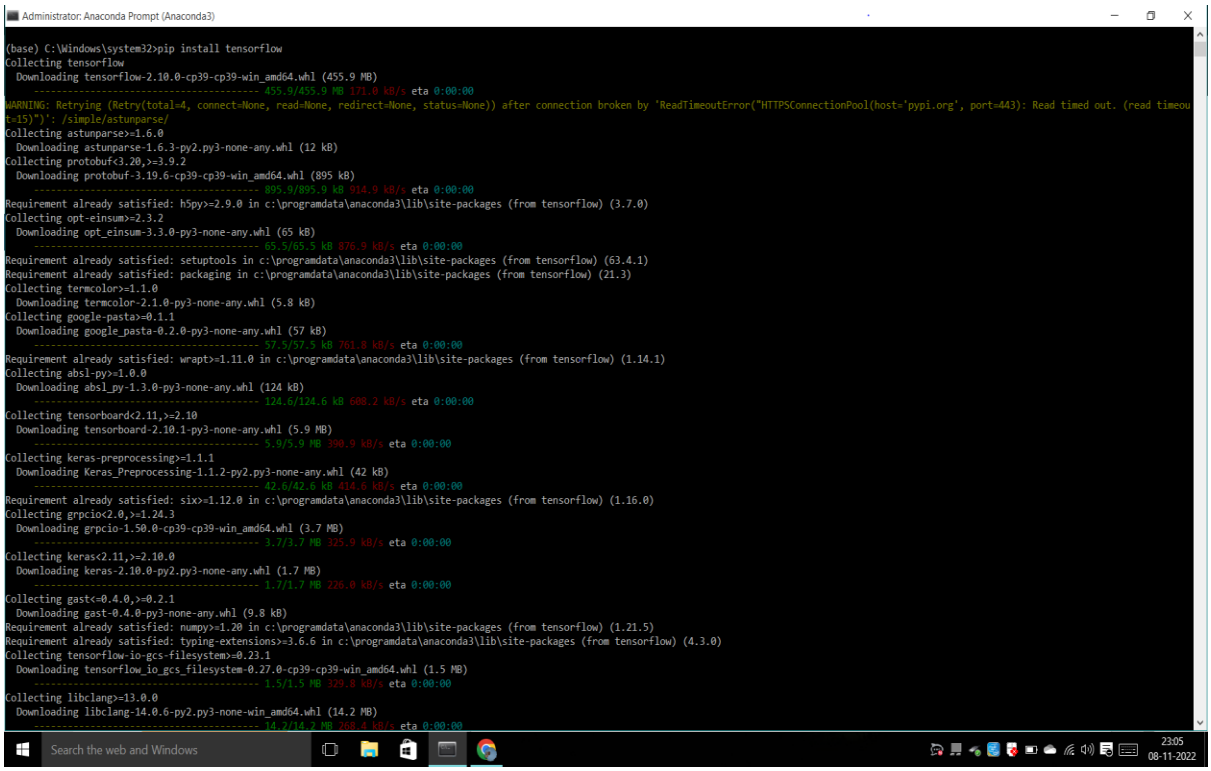
Team ID	PNT2022TMID22447
Project Name	Real time communication system powered by AI for specially abled
Maximum Marks	

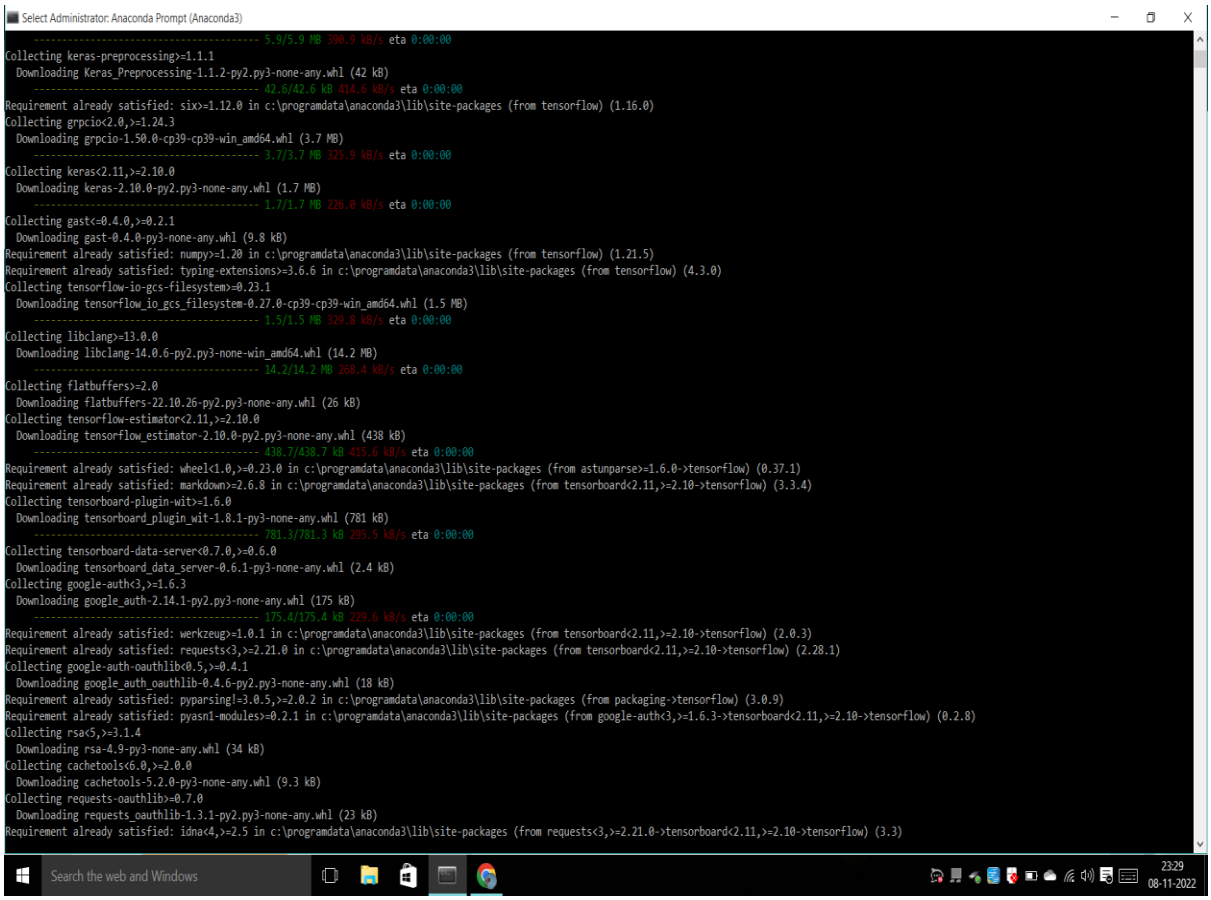
Anaconda (IDLE / Spyder / PyCharm) INSTALLATION



downloading the required packages:

- Open anaconda prompt as administrator.
- Type **"pip install tensorflow** and click enter.
- Type **"pip install keras** 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.


Administrator: Anaconda Prompt (Anaconda3)
(base) C:\Windows\system32>pip install tensorflow
Collecting tensorflow
Downloading tensorflow-2.10.0-cp39-cp39-win_amd64.whl (455.9 MB)
455.9/455.9 MB 171.0 kB/s eta 0:00:00
WARNING: Retrying (Retry(total=4, connect=None, read=None, redirect=None, status=None)) after connection broken by 'ReadTimeoutError("HTTPSConnectionPool(host='pypi.org', port=443): Read timed out. (read timeout=15)")': /simple/astunparse/
Collecting astunparse>=1.6.0
Downloading astunparse-1.6.3-py2.py3-none-any.whl (12 kB)
Collecting protobuf<3.20,>=3.9.2
Downloading protobuf-3.19.6-cp39-cp39-win_amd64.whl (895 kB)
895.9/895.9 kB 914.9 kB/s eta 0:00:00
Requirement already satisfied: h5py>=2.9.0 in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (3.7.0)
Collecting opt-einsum>=2.3.2
Downloading opt_einsum-3.3.0-py3-none-any.whl (65 kB)
65.5/65.5 kB 876.9 kB/s eta 0:00:00
Requirement already satisfied: setuptools in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (63.4.1)
Requirement already satisfied: packaging in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (21.3)
Collecting termcolor>=1.1.0
Downloading termcolor-2.1.0-py3-none-any.whl (5.8 kB)
Collecting google-pasta>=0.1.1
Downloading google_pasta-0.2.0-py3-none-any.whl (57 kB)
57.5/57.5 kB 761.8 kB/s eta 0:00:00
Requirement already satisfied: wrapt>=1.11.0 in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (1.14.1)
Collecting absl-py>=1.0.0
Downloading absl_py-1.3.0-py3-none-any.whl (124 kB)
124.6/124.6 kB 608.2 kB/s eta 0:00:00
Collecting tensorboard<2.11,>=2.10
Downloading tensorboard-2.10.1-py3-none-any.whl (5.9 MB)
5.9/5.9 MB 390.9 kB/s eta 0:00:00
Collecting keras-preprocessing>=1.1.1
Downloading Keras_Preprocessing-1.1.2-py2.py3-none-any.whl (42 kB)
42.6/42.6 kB 414.6 kB/s eta 0:00:00
Requirement already satisfied: six>=1.12.0 in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (1.16.0)
Collecting grpcio<2.0,>=1.24.3
Downloading grpcio-1.50.0-cp39-cp39-win_amd64.whl (3.7 MB)
3.7/3.7 MB 325.9 kB/s eta 0:00:00
Collecting keras<2.11,>=2.10.0
Downloading keras-2.10.0-py2.py3-none-any.whl (1.7 MB)
1.7/1.7 MB 226.0 kB/s eta 0:00:00
Collecting gast<=0.4.0,>=0.2.1
Downloading gast-0.4.0-py3-none-any.whl (9.8 kB)
Requirement already satisfied: numpy>=1.20 in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (1.21.5)
Requirement already satisfied: typing-extensions>=3.6.6 in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (4.3.0)
Collecting tensorflow-io-gcs-filesystem>=0.23.1
Downloading tensorflow_io_gcs_filesystem-0.27.0-cp39-cp39-win_amd64.whl (1.5 MB)
1.5/1.5 MB 329.8 kB/s eta 0:00:00
Collecting libclang>=13.0.0
Downloading libclang-14.0.6-py2.py3-none-win_amd64.whl (14.2 MB)
14.2/14.2 MB 268.4 kB/s eta 0:00:00
Search the web and Windows
23:05
08-11-2022


Select Administrator: Anaconda Prompt (Anaconda3)
5.9/5.9 MB 390.9 kB/s eta 0:00:00
Collecting keras-preprocessing>=1.1.1
Downloading Keras_Preprocessing-1.1.2-py2.py3-none-any.whl (42 kB)
42.6/42.6 kB 414.6 kB/s eta 0:00:00
Requirement already satisfied: six>=1.12.0 in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (1.16.0)
Collecting grpcio<2.0,>=1.24.3
Downloading grpcio-1.50.0-cp39-cp39-win_amd64.whl (3.7 MB)
3.7/3.7 MB 325.9 kB/s eta 0:00:00
Collecting keras<2.11,>=2.10.0
Downloading keras-2.10.0-py2.py3-none-any.whl (1.7 MB)
1.7/1.7 MB 226.0 kB/s eta 0:00:00
Collecting gast<=0.4.0,>=0.2.1
Downloading gast-0.4.0-py3-none-any.whl (9.8 kB)
Requirement already satisfied: numpy>=1.20 in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (1.21.5)
Requirement already satisfied: typing-extensions>=3.6.6 in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (4.3.0)
Collecting tensorflow-io-gcs-filesystem>=0.23.1
Downloading tensorflow_io_gcs_filesystem-0.27.0-cp39-cp39-win_amd64.whl (1.5 MB)
1.5/1.5 MB 329.8 kB/s eta 0:00:00
Collecting libclang>=13.0.0
Downloading libclang-14.0.6-py2.py3-none-win_amd64.whl (14.2 MB)
14.2/14.2 MB 268.4 kB/s eta 0:00:00
Collecting flatbuffers>=2.0
Downloading flatbuffers-22.10.26-py2.py3-none-any.whl (26 kB)
Collecting tensorflow-estimator<2.11,>=2.10.0
Downloading tensorflow_estimator-2.10.0-py2.py3-none-any.whl (438 kB)
438.7/438.7 kB 415.6 kB/s eta 0:00:00
Requirement already satisfied: wheel<1.0,>=0.23.0 in c:\programdata\anaconda3\lib\site-packages (from astunparse>=1.6.0->tensorflow) (0.37.1)
Requirement already satisfied: markdown>=2.6.8 in c:\programdata\anaconda3\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (3.3.4)
Collecting tensorboard-plugin-wit>=1.6.0
Downloading tensorboard_plugin_wit-1.8.1-py3-none-any.whl (781 kB)
781.3/781.3 kB 295.5 kB/s eta 0:00:00
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<3,>=1.6.3
Downloading google_auth-2.14.1-py2.py3-none-any.whl (175 kB)
175.4/175.4 kB 229.6 kB/s eta 0:00:00
Requirement already satisfied: werkzeug>=1.0.1 in c:\programdata\anaconda3\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (2.0.3)
Requirement already satisfied: requests<3,>=2.21.0 in c:\programdata\anaconda3\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (2.28.1)
Collecting google-auth-oauthlib<0.5,>=0.4.1
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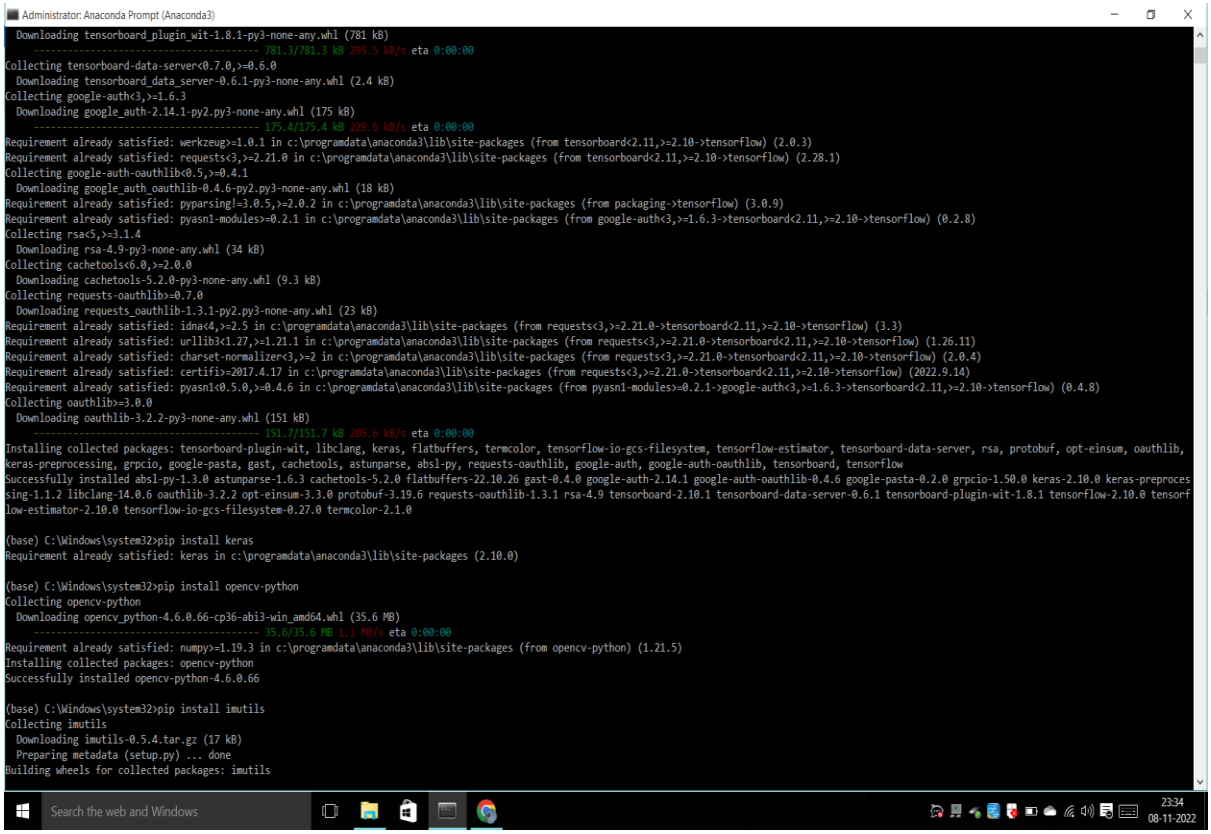
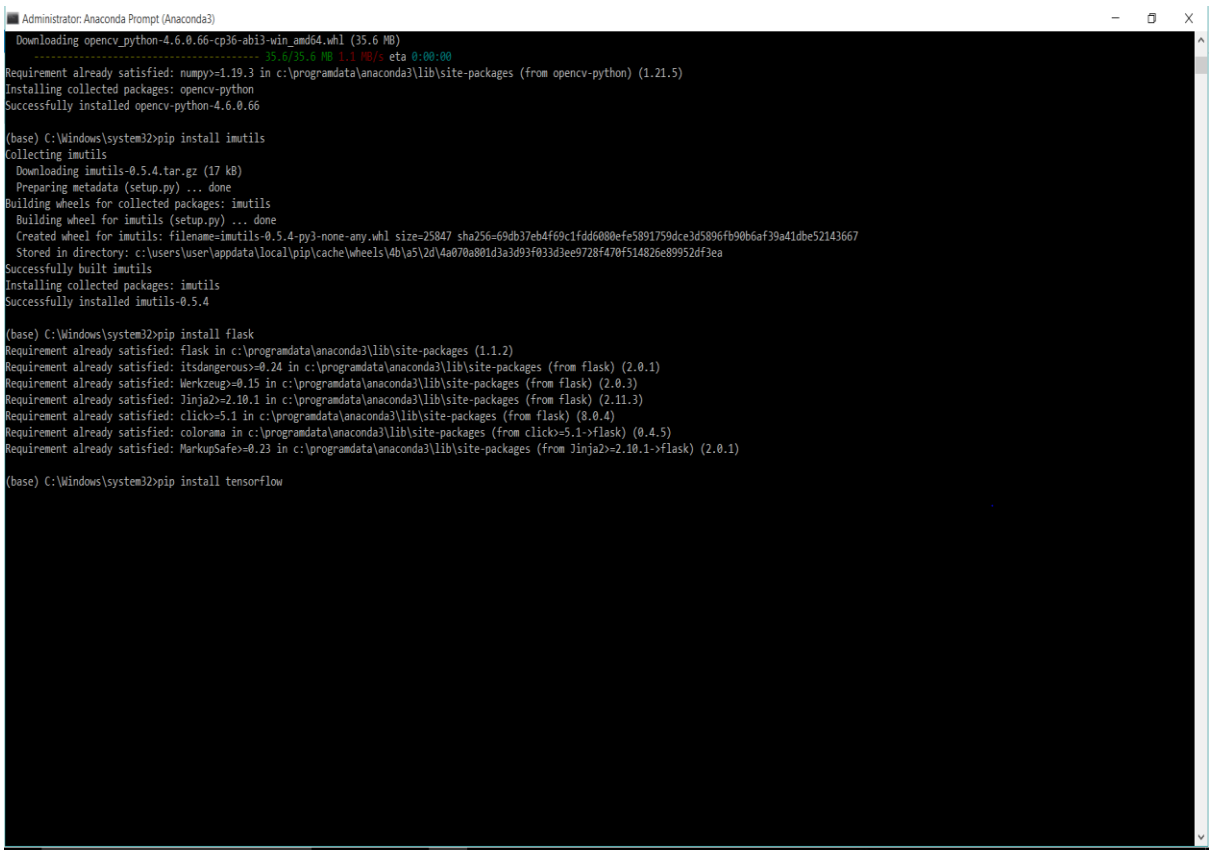
Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in c:\programdata\anaconda3\lib\site-packages (from packaging->tensorflow) (3.0.9)
Requirement already satisfied: pyasn1-modules>=0.2.1 in c:\programdata\anaconda3\lib\site-packages (from google-auth<3,>=1.6.3->tensorboard<2.11,>=2.10->tensorflow) (0.2.8)
Collecting rsa<5,>=3.1.4
Downloading rsa-4.9-py3-none-any.whl (34 kB)
Collecting cachetools<6.0,>=2.0.0
Downloading cachetools-5.2.0-py3-none-any.whl (9.3 kB)
Collecting requests-oauthlib>=0.7.0
Downloading requests_oauthlib-1.3.1-py2.py3-none-any.whl (23 kB)
Requirement already satisfied: idna<4,>=2.5 in c:\programdata\anaconda3\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (3.3)
Search the web and Windows
23:29
08-11-2022


Administrator: Anaconda Prompt (Anaconda3)
Downloading tensorboard_plugin_wit-1.8.1-py3-none-any.whl (781 kB)
781.3/781.3 kB 295.5 kB/s eta 0:00:00
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<3,>=1.6.3
Downloading google_auth-2.14.1-py2.py3-none-any.whl (175 kB)
175.4/175.4 kB 229.6 kB/s eta 0:00:00
Requirement already satisfied: werkzeug>=1.0.1 in c:\programdata\anaconda3\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (2.0.3)
Requirement already satisfied: requests<3,>=2.21.0 in c:\programdata\anaconda3\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (2.28.1)
Collecting google-auth-oauthlib<0.5,>=0.4.1
Downloading google_auth_oauthlib-0.4.6-py2.py3-none-any.whl (18 kB)
Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in c:\programdata\anaconda3\lib\site-packages (from packaging->tensorflow) (3.0.9)
Requirement already satisfied: pyasn1-modules>=0.2.1 in c:\programdata\anaconda3\lib\site-packages (from google-auth<3,>=1.6.3->tensorboard<2.11,>=2.10->tensorflow) (0.2.8)
Collecting rsa<5,>=3.1.4
Downloading rsa-4.9-py3-none-any.whl (34 kB)
Collecting cachetools<6.0,>=2.0.0
Downloading cachetools-5.2.0-py3-none-any.whl (9.3 kB)
Collecting requests-oauthlib>=0.7.0
Downloading requests_oauthlib-1.3.1-py2.py3-none-any.whl (23 kB)
Requirement already satisfied: idna<4,>=2.5 in c:\programdata\anaconda3\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (3.3)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\programdata\anaconda3\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (1.26.11)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\programdata\anaconda3\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (2.0.4)
Requirement already satisfied: certifi>=2017.4.17 in c:\programdata\anaconda3\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (2022.9.14)
Requirement already satisfied: pyasn1<0.5.0,>=0.4.6 in c:\programdata\anaconda3\lib\site-packages (from pyasn1-modules>=0.2.1->google-auth<3,>=1.6.3->tensorboard<2.11,>=2.10->tensorflow) (0.4.8)
Collecting oauthlib>=3.0.0
Downloading oauthlib-3.2.2-py3-none-any.whl (151 kB)
151.7/151.7 kB 205.6 kB/s eta 0:00:00
Installing collected packages: tensorboard-plugin-wit, libclang, keras, flatbuffers, termcolor, tensorflow-io-gcs-filesystem, tensorflow-estimator, tensorboard-data-server, rsa, protobuf, opt-einsum, oauthlib, keras-preprocessing, grpcio, google-pasta, gast, cachetools, astunparse, absl-py, requests-oauthlib, google-auth, google-auth-oauthlib, tensorboard, tensorflow
Successfully installed absl-py-1.3.0 astunparse-1.6.3 cachetools-5.2.0 flatbuffers-22.10.26 gast-0.4.0 google-auth-2.14.1 google-auth-oauthlib-0.4.6 google-pasta-0.2.0 grpcio-1.50.0 keras-2.10.0 keras-preprocessing-1.1.2 libclang-14.0.6 oauthlib-3.2.2 opt-einsum-3.3.0 protobuf-3.19.6 requests-oauthlib-1.3.1 rsa-4.9 tensorboard-2.10.1 tensorboard-data-server-0.6.1 tensorboard-plugin-wit-1.8.1 tensorflow-2.10.0 tensorflow-estimator-2.10.0 tensorflow-io-gcs-filesystem-0.27.0 termcolor-2.1.0
(base) C:\Windows\system32>pip install keras
Requirement already satisfied: keras in c:\programdata\anaconda3\lib\site-packages (2.10.0)
(base) C:\Windows\system32>pip install opencv-python
Collecting opencv-python
Downloading opencv_python-4.6.0.66-cp36-abi3-win_amd64.whl (35.6 MB)
35.6/35.6 MB 1.1 MB/s eta 0:00:00
Requirement already satisfied: numpy>=1.19.3 in c:\programdata\anaconda3\lib\site-packages (from opencv-python) (1.21.5)
Installing collected packages: opencv-python
Successfully installed opencv-python-4.6.0.66
(base) C:\Windows\system32>pip install imutils
Collecting imutils
Downloading imutils-0.5.4.tar.gz (17 kB)
Preparing metadata (setup.py) ... done
Building wheels for collected packages: imutils
Search the web and Windows
23:34
08-11-2022


Administrator: Anaconda Prompt (Anaconda3)
Downloading opencv_python-4.6.0.66-cp36-abi3-win_amd64.whl (35.6 MB)
35.6/35.6 MB 1.1 MB/s eta 0:00:00
Requirement already satisfied: numpy>=1.19.3 in c:\programdata\anaconda3\lib\site-packages (from opencv-python) (1.21.5)
Installing collected packages: opencv-python
Successfully installed opencv-python-4.6.0.66
(base) C:\Windows\system32>pip install imutils
Collecting imutils
Downloading imutils-0.5.4.tar.gz (17 kB)
Preparing metadata (setup.py) ... done
Building wheels for collected packages: imutils
Building wheel for imutils (setup.py) ... done
Created wheel for imutils: filename=imutils-0.5.4-py3-none-any.whl size=25847 sha256=69db37eb4f69c1fdd6080efe5891759dce3d5896fb90b6af39a41dbe52143667
Stored in directory: c:\users\user\appdata\local\pip\cache\wheels\4b\a5\2d\4a070a801d3a3d93f033d3ee9728f470f514826e89952df3ea
Successfully built imutils
Installing collected packages: imutils
Successfully installed imutils-0.5.4
(base) C:\Windows\system32>pip install flask
Requirement already satisfied: flask in c:\programdata\anaconda3\lib\site-packages (1.1.2)
Requirement already satisfied: itsdangerous>=0.24 in c:\programdata\anaconda3\lib\site-packages (from flask) (2.0.1)
Requirement already satisfied: Werkzeug>=0.15 in c:\programdata\anaconda3\lib\site-packages (from flask) (2.0.3)
Requirement already satisfied: Jinja2>=2.10.1 in c:\programdata\anaconda3\lib\site-packages (from flask) (2.11.3)
Requirement already satisfied: click>=5.1 in c:\programdata\anaconda3\lib\site-packages (from flask) (8.0.4)
Requirement already satisfied: colorama in c:\programdata\anaconda3\lib\site-packages (from click>=5.1->flask) (0.4.5)
Requirement already satisfied: MarkupSafe>=0.23 in c:\programdata\anaconda3\lib\site-packages (from Jinja2>=2.10.1->flask) (2.0.1)
(base) C:\Windows\system32>pip install tensorflow