

Date	17 November 2002
Project Tittle	Real-time Communication System Powered by AI for Specially Abled
Team ID	PNT2022TMID45340

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DataSpell is an IDE for exploratory data analysis and prototyping machine learning models. It combines the interactivity of Jupyter notebooks with the intelligent Python and R coding assistance of PyCharm in one user-friendly environment.

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CMD.exe Prompt

0.1.1

Run a cmd.exe terminal with your current environment from Navigator activated

Launch



JupyterLab

3.4.4

An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.

Launch



Notebook

6.4.12

Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.

Launch



Powershell Prompt

0.0.1

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Qt Console

5.2.2

PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.



Spyder

5.2.2

Scientific PYTHON Development Environment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features



Datalore

Kick-start your data science projects in seconds in a pre-configured environment. Enjoy coding assistance for Python, SQL, and R in Jupyter notebooks and benefit from no-code automations. Use Datalore

```
Anaconda Prompt (anaconda)

(base) C:\Users\nivet>pip install tensorflow
Collecting tensorflow
  Downloading tensorflow-2.10.1-cp39-cp39-win_amd64.whl (455.9 MB)
----- 455.9/455.9 MB 75.0 kB/s eta 0:00:00
Collecting opt-einsum<=2.3.2
  Downloading opt_einsum-3.3.0-py3-none-any.whl (65 kB)
----- 65.5/65.5 kB 207.7 kB/s eta 0:00:00
Requirement already satisfied: numpy>=1.20 in c:\users\nivet\desktop\anaconda\lib\site-packages (from tensorflow) (1.21.5)
Requirement already satisfied: packaging in c:\users\nivet\desktop\anaconda\lib\site-packages (from tensorflow) (21.3)
Collecting flatbuffers<=2.0
  Downloading flatbuffers-22.10.26-py2.py3-none-any.whl (26 kB)
Collecting keras-preprocessing<=1.1.1
  Downloading Keras_Preprocessing-1.1.2-py2.py3-none-any.whl (42 kB)
----- 42.6/42.6 kB 513.3 kB/s eta 0:00:00
Collecting protobuf<3.20,>=3.9.2
  Downloading protobuf-3.19.6-cp39-cp39-win_amd64.whl (895 kB)
----- 895.9/895.9 kB 1.1 MB/s eta 0:00:00
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 635.9 kB/s eta 0:00:00
Collecting termcolor>=1.1.0
  Downloading termcolor-2.1.0-py3-none-any.whl (5.8 kB)
Collecting gast<=0.4.0,>=0.2.1
  Downloading gast-0.4.0-py3-none-any.whl (9.8 kB)
Collecting absl-py<=1.0.0
  Downloading absl_py-1.3.0-py3-none-any.whl (124 kB)
----- 124.6/124.6 kB 488.7 kB/s eta 0:00:00
Requirement already satisfied: wrapt>=1.11.0 in c:\users\nivet\desktop\anaconda\lib\site-packages (from tensorflow) (1.14.1)
Requirement already satisfied: typing-extensions>=3.6.6 in c:\users\nivet\desktop\anaconda\lib\site-packages (from tensorflow) (4.3.0)
Requirement already satisfied: h5py>=2.9.0 in c:\users\nivet\desktop\anaconda\lib\site-packages (from tensorflow) (3.7.0)
Collecting astunparse<=1.6.0
  Downloading astunparse-1.6.3-py2.py3-none-any.whl (12 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 596.7 kB/s eta 0:00:00
Collecting google-pasta<=0.1.1
  Downloading google_pasta-0.2.0-py3-none-any.whl (57 kB)
----- 57.5/57.5 kB 377.8 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 459.9 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 652.3 kB/s eta 0:00:00
Requirement already satisfied: setuptools in c:\users\nivet\desktop\anaconda\lib\site-packages (from tensorflow) (63.4.1)
Requirement already satisfied: six>=1.12.0 in c:\users\nivet\desktop\anaconda\lib\site-packages (from tensorflow) (1.16.0)
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 972.9 kB/s eta 0:00:00
Requirement already satisfied: wheel<1.0,>=0.23.0 in c:\users\nivet\desktop\anaconda\lib\site-packages (from astunparse<=1.6.0->tensorflow) (0.37.1)
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 695.3 kB/s eta 0:00:00
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: requests<3,>=2.21.0 in c:\users\nivet\desktop\anaconda\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (2.28.1)
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 705.6 kB/s eta 0:00:00
Requirement already satisfied: werkzeug>=1.0.1 in c:\users\nivet\desktop\anaconda\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (2.0.3)
Requirement already satisfied: markdown>=2.6.8 in c:\users\nivet\desktop\anaconda\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (3.3.4)
Collecting tensorboard-data-server<0.7.0,>=0.6.0
  Downloading tensorboard_data_server-0.6.1-py3-none-any.whl (2.4 kB)
Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in c:\users\nivet\desktop\anaconda\lib\site-packages (from packaging->tensorflow) (3.0.9)
Collecting cachetools<6.0,>=2.0.0
  Downloading cachetools-5.2.0-py3-none-any.whl (9.3 kB)
Requirement already satisfied: pyasn1-modules>=0.2.1 in c:\users\nivet\desktop\anaconda\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 requests-oauthlib>=0.7.0
  Downloading requests_oauthlib-1.3.1-py2.py3-none-any.whl (23 kB)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\nivet\desktop\anaconda\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:\users\nivet\desktop\anaconda\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:\users\nivet\desktop\anaconda\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (2022.9.14)
Requirement already satisfied: idna<4,>=2.5 in c:\users\nivet\desktop\anaconda\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (3.3)
Requirement already satisfied: pyasn1<0.5.0,>=0.4.6 in c:\users\nivet\desktop\anaconda\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 348.4 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-2.10.1 tensorflow-estimator-2.10.0 tensorflow-io-gcs-filesystem-0.27.0 termcolor-2.1.0

(base) C:\Users\nivet>
```

Anaconda Prompt (anaconda)

```
(base) C:\Users\nivet>pip install keras==2.2.4
Requirement already satisfied: keras==2.2.4 in c:\users\nivet\desktop\anaconda\lib\site-packages (2.2.4)
Requirement already satisfied: keras-applications>=1.0.6 in c:\users\nivet\desktop\anaconda\lib\site-packages (from keras==2.2.4) (1.0.8)
Requirement already satisfied: scipy>=0.14 in c:\users\nivet\desktop\anaconda\lib\site-packages (from keras==2.2.4) (1.9.1)
Requirement already satisfied: pyyaml in c:\users\nivet\desktop\anaconda\lib\site-packages (from keras==2.2.4) (6.0)
Requirement already satisfied: six>=1.9.0 in c:\users\nivet\desktop\anaconda\lib\site-packages (from keras==2.2.4) (1.16.0)
Requirement already satisfied: keras-preprocessing>=1.0.5 in c:\users\nivet\desktop\anaconda\lib\site-packages (from keras==2.2.4) (1.1.2)
Requirement already satisfied: numpy>=1.9.1 in c:\users\nivet\desktop\anaconda\lib\site-packages (from keras==2.2.4) (1.21.5)
Requirement already satisfied: h5py in c:\users\nivet\desktop\anaconda\lib\site-packages (from keras==2.2.4) (3.7.0)
```

```
(base) C:\Users\nivet>
```

```
Anaconda Prompt (anaconda)

(base) C:\Users\nivet>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 625.3 kB/s eta 0:00:00
Requirement already satisfied: numpy>=1.19.3 in c:\users\nivet\desktop\anaconda\lib\site-packages (from opencv-python) (1.21.5)
Installing collected packages: opencv-python
Successfully installed opencv-python-4.6.0.66

(base) C:\Users\nivet>
```

Anaconda Prompt (anaconda)

```
(base) C:\Users\nivet>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=d7d2fb2e1b1b8cbbdf7edfff82201c3ad8451f2f8191d675322fd75fba970f9a
  Stored in directory: c:\users\nivet\appdata\local\pip\cache\wheels\4b\45\2d\4a070a801d3a3d93f033d3ee9728f470f514826e89952df3ea
Successfully built imutils
Installing collected packages: imutils
Successfully installed imutils-0.5.4

(base) C:\Users\nivet>
```

```
Anaconda Prompt (anaconda)

(base) C:\Users\nivet>pip install flash
Collecting flash
  Downloading flash-1.0.3-py3-none-any.whl (2.7 kB)
Installing collected packages: flash
Successfully installed flash-1.0.3

(base) C:\Users\nivet>
```