

## PRE-REQUISITES

TEAM ID	PNT2022TMID40618
PROJECT	REAL-Time Communication System Powered by AI for Specially Abled

Anaconda Navigator

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Anaconda Notebooks

Cloud notebooks with hundreds of packages ready to code.

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DataSpell

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.

Install

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

Jupyter 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

Run a Powershell terminal with your current environment from Navigator activated

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,

Datalore

Kick-start your data science projects in seconds in a pre-configured environment. Enjoy coding assistance For Python, SQL,

Launching notebook

23°C Partly sunny 6:49 AM 11/17/2022

```
(base) C:\Users\Sithubhuvi>pip install tensorflow
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: tensorflow in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (2.10.0)
Requirement already satisfied: astunparse>=1.6.0 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (1.6.3)
Requirement already satisfied: flatbuffers>=2.0 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (22.10.26)
Requirement already satisfied: absl-py>=1.0.0 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (1.3.0)
Requirement already satisfied: h5py>=2.9.0 in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (3.7.0)
Requirement already satisfied: gast<=0.4.0,>=0.2.1 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (0.4.0)
Requirement already satisfied: six>=1.12.0 in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (1.16.0)
Requirement already satisfied: protobuf<3.20,>=3.9.2 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (3.19.6)
Requirement already satisfied: termcolor>=1.1.0 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (2.1.0)
Requirement already satisfied: numpy>=1.20 in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (1.21.5)
Requirement already satisfied: grpcio<2.0,>=1.24.3 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (1.50.0)
Requirement already satisfied: libclang>=13.0.0 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (14.0.6)
Requirement already satisfied: setuptools in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (63.4.1)
Requirement already satisfied: keras<2.11,>=2.10.0 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (2.10.0)
Requirement already satisfied: wrapt>=1.11.0 in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (1.14.1)
Requirement already satisfied: tensorboard<2.11,>=2.10 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (2.10.1)
Requirement already satisfied: tensorflow-io-gcs-filesystem>=0.23.1 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (0.27.0)
Requirement already satisfied: typing-extensions>=3.6.6 in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (4.3.0)
Requirement already satisfied: google-pasta>=0.1.1 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (0.2.0)
Requirement already satisfied: opt-einsum>=2.3.2 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (3.3.0)
Requirement already satisfied: packaging in c:\programdata\anaconda3\lib\site-packages (from tensorflow) (21.3)
Requirement already satisfied: tensorflow-estimator<2.11,>=2.10.0 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (2.10.0)
Requirement already satisfied: keras-preprocessing>=1.1.1 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorflow) (1.1.2)
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: google-auth<3,>=1.6.3 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (2.14.1)
Requirement already satisfied: tensorboard-data-server<0.7.0,>=0.6.0 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (0.6.1)
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)
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: tensorboard-plugin-wit>=1.6.0 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (1.8.1)
Requirement already satisfied: google-auth-oauthlib<0.5,>=0.4.1 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (0.4.6)
Requirement already satisfied: markdown>=2.6.8 in c:\programdata\anaconda3\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (3.3.4)
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)
Requirement already satisfied: cachetools<6.0,>=2.0.0 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from google-auth<3,>=1.6.3->tensorboard<2.11,>=2.10->tensorflow) (5.2.0)
Requirement already satisfied: rsa<5,>=3.1.4 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from google-auth<3,>=1.6.3->tensorboard<2.11,>=2.10->tensorflow) (4.9.0)
```



Type here to search



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)

Requirement already satisfied: cachetools<6.0,>=2.0.0 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from google-auth<3,>=1.6.3->tensorboard<2.11,>=2.10->tensorflow) (5.2.0)

Requirement already satisfied: rsa<5,>=3.1.4 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from google-auth<3,>=1.6.3->tensorboard<2.11,>=2.10->tensorflow) (4.9)

Requirement already satisfied: requests-oauthlib<=0.7.0 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from google-auth-oauthlib<0.5,>=0.4.1->tensorboard<2.11,>=2.10->tensorflow) (1.3.1)

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: 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: 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: 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)

Requirement already satisfied: oauthlib<=3.0.0 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from requests-oauthlib<=0.7.0->google-auth-oauthlib<0.5,>=0.4.1->tensorboard<2.11,>=2.10->tensorflow) (3.2.2)

(base) C:\Users\Sithubhuvi>

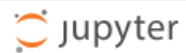


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10:17 PM  
11/15/2022







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<input type="checkbox"/> 0	Name	Last Modified	File size
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<input type="checkbox"/>	Desktop	4 minutes ago	
<input type="checkbox"/>	Documents	19 minutes ago	
<input type="checkbox"/>	Downloads	12 minutes ago	
<input type="checkbox"/>	Favorites	16 days ago	
<input type="checkbox"/>	Jedi	19 hours ago	
<input type="checkbox"/>	Links	16 days ago	
<input type="checkbox"/>	Music	16 days ago	
<input type="checkbox"/>	OneDrive	2 hours ago	
<input type="checkbox"/>	Pictures	a day ago	
<input type="checkbox"/>	Saved Games	16 days ago	
<input type="checkbox"/>	Searches	16 days ago	



- Cut Cells X
- Copy Cells C
- Paste Cells Above Shift-V
- Paste Cells Below V
- Paste Cells & Replace
- Delete Cells D, D
- Undo Delete Cells Z
- Split Cell Ctrl-Shift-Minus
- Merge Cell Above
- Merge Cell Below
- Move Cell Up
- Move Cell Down
- Edit Notebook Metadata
- Find and Replace
- Cut Cell Attachments
- Copy Cell Attachments
- Paste Cell Attachments
- Insert Image

Browser tabs: 409 Conflict, Gmail, YouTube, Maps, News, Translate, How to Run Java Pr..., Error Launching Ide..., Untitled (active), and several IBM and PRE tabs. Address bar: localhost:8888/notebooks/Untitled.ipynb?kernel\_name=python3. Extensions: 409 Conflict, Gmail, YouTube, Maps, News, Translate, How to Run Java Pr..., Error Launching Ide...

jupyter Untitled Last Checkpoint: a few seconds ago (unsaved changes)



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File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel)

Toolbar icons: Save, New, Copy, Paste, Undo, Redo, Run, Stop, Restart, and a dropdown menu currently set to 'Code'.

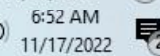
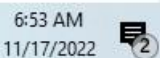
In [ ]: |

Windows taskbar: Search bar (Type here to search), taskbar icons (Task View, Edge, File Explorer, Teams, Adobe Reader, Chrome, Word, Jupyter), system tray (23°C Partly sunny, 6:51 AM 11/17/2022, 2 notifications).



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```
(base) C:\Users\Sithubhuvi>pip install keras
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: keras in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (2.2.4)
Requirement already satisfied: scipy>=0.14 in c:\programdata\anaconda3\lib\site-packages (from keras) (1.9.1)
Requirement already satisfied: h5py in c:\programdata\anaconda3\lib\site-packages (from keras) (3.7.0)
Requirement already satisfied: numpy>=1.9.1 in c:\programdata\anaconda3\lib\site-packages (from keras) (1.21.5)
Requirement already satisfied: pyyaml in c:\programdata\anaconda3\lib\site-packages (from keras) (6.0)
Requirement already satisfied: keras-preprocessing>=1.0.5 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from keras) (1.1.2)
Requirement already satisfied: six>=1.9.0 in c:\programdata\anaconda3\lib\site-packages (from keras) (1.16.0)
Requirement already satisfied: keras-applications>=1.0.6 in c:\users\sithubhuvi\appdata\roaming\python\python39\site-packages (from keras) (1.0.8)
```





C:\Users\Sithubhuvi

C:\Users\Sithubhuvi\spyder-py3\temp.py

temp.py\* x

```
1 # ...
2 """
3 Spy Active code page: 1252
4 Thi
5 """
6
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8 5+5
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```

C:\Windows\system32\cmd.exe

Active code page: 1252

5+5

16 64 bit (AMD64)]  
ormation.

emp.py')

IPython Console History

LSP Python: ready conda: base (Python 3.9.13) Line 8, Col 4 UTF-8 CRLF RW Mem 81%

23°C 7:01 AM 11/17/2022

### Spyder 5.4.0 Setup

**Installing**  
Please wait while Spyder 5.4.0 is being installed.

Extract: Qt5WebEngineCore.dll... 67%

Extract: Qt5RemoteObjects.dll... 100%

Extract: Qt5Sensors.dll... 100%

Extract: Qt5SerialPort.dll... 100%

Extract: Qt5Sql.dll... 100%

Extract: Qt5Svg.dll... 100%

Extract: Qt5Test.dll... 100%

Extract: Qt5TextToSpeech.dll... 100%

Extract: Qt5WebChannel.dll... 100%

Extract: Qt5WebEngine.dll... 100%

Extract: Qt5WebEngineCore.dll... 67%

Nullsoft Install System v3.08

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