

# INSTALLING MINICONDA, PYTHON, TENSORFLOW, KERAS, OPEN CV AND PYCHARM



Miniconda



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**Miniconda — Conda documentation**

<https://docs.conda.io/en/latest/miniconda.html>

There are two variants of the installer: **Miniconda** is Python 2 based :

Miniconda — Conda documentation

docs.conda.io/en/latest/miniconda.html

Apps | Review: SRCNN (Su... | 100YearsScholarship | international applic... | ทุน 90 ปี จุฬาลงกรณ์... | Image-Restoration-... | InCites | InCites

Conda  
latest

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**Miniconda**  
Help and support

Docs » Miniconda [Edit on GitHub](#)

**Miniconda** Tensorflow can not work on 32 bit operating machine

	Windows	Mac OS X	Linux
Python 3.7	<b>64-bit (exe installer)</b>	64-bit (bash installer)	64-bit (bash installer)

**Miniconda**

	Windows	Mac OS X
Python 3.7	<b>64-bit (exe installer)</b> 32-bit (exe installer)	64-bit (bash installer) 64-bit (.pkg installer)
Python 2.7	64-bit (exe installer) 32-bit (exe installer)	64-bit (bash installer) 64-bit (.pkg installer)

[Installation instructions](#)

[Read the Docs](#) v: latest

Miniconda3-latest...exe  
9.2/72.6 MB, 5 mins left

**Click on here**

Miniconda3-latest.exe  
Miniconda3-latest-Windows-x86\_64.exe



## Welcome to Miniconda3 4.7.10 (64-bit) Setup

Setup will guide you through the installation of Miniconda3 4.7.10 (64-bit).

It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.

Click Next to continue.

[Next >](#)[Cancel](#)

### License Agreement

Please review the license terms before installing Miniconda3 4.7.10 (64-bit).

Press Page Down to see the rest of the agreement.

=====

Miniconda End User License Agreement

=====

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If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install Miniconda3 4.7.10 (64-bit).

Anaconda, Inc.

[< Back](#)[I Agree](#)[Cancel](#)

**Select Installation Type**

Please select the type of installation you would like to perform for Miniconda3 4.7.10 (64-bit).

Install for:

- ☒ Just Me (recommended)
- ☐ All Users (requires admin privileges)

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Next >

Cancel

**Choose Install Location**

Choose the folder in which to install Miniconda3 4.7.10 (64-bit).

Setup will install Miniconda3 4.7.10 (64-bit) in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.

Destination Folder

C:\Users\niaz\Miniconda3

Browse...

Space required: 296.0MB

Space available: 38.0GB

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**Advanced Installation Options**

Customize how Anaconda integrates with Windows

## Advanced Options

☐ Add Anaconda to my PATH environment variable

Not recommended. Instead, open Anaconda with the Windows Start menu and select "Anaconda (64-bit)". This "add to PATH" option makes Anaconda get found before previously installed software, but may cause problems requiring you to uninstall and reinstall Anaconda.

☒ Register Anaconda as my default Python 3.7

This will allow other programs, such as Python Tools for Visual Studio, PyCharm, Wing IDE, PyDev, and MSI binary packages, to automatically detect Anaconda as the primary Python 3.7 on the system.

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Install

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**Installing**

Please wait while Miniconda3 4.7.10 (64-bit) is being installed.

Extract: ca-certificates-2019.5.15-0.conda

[Show details](#)

**It not take more time  
because it has not more detailed  
packages**

**Less packages than Anaconda**

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### Installation Complete

Setup was completed successfully.

Completed



Show details

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miniCONDA

## Thanks for installing Miniconda3!

Anaconda is the most popular Python data science platform.

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☐ Learn how to get started with Anaconda

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Finish

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Anaconda Prompt (Miniconda3)

App

## Apps

Anaconda Powershell Prompt (Miniconda3)

## Documents - This PC

anaconda\_client.py - in gateways

anaconda\_client.py - in gateways

anaconda\_client.cpython-37.pyc - in  
\_\_pycache\_\_

anaconda\_client.cpython-37.pyc - in  
\_\_pycache\_\_



anaconda Prompt (Miniconda3)

Anaconda Powershell Prompt (Miniconda3)

```
(base) PS C:\Users\niaz>
```

**Here base shows a base as Anaconda version**

Anaconda Prompt (Miniconda3)

```
(base) C:\Users\niaz>python --version  
Python 3.7.3
```

**you check python version**

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

```
(base) C:\Users\niaz>python --version  
Python 3.7.3
```

```
(base) C:\Users\niaz>conda create --name wazirtensorflow python=3.6
```

**Because python 3.7.3 tensorflow conflict,  
so we install with python 3.6  
my virtual environment name is  
wazirtensorflow**

the following NEW packages will be INSTALLED:

certifi	pkgs/main/win-64::certifi-2019.6.16-py36_1
pip	pkgs/main/win-64::pip-19.2.2-py36_0
python	pkgs/main/win-64::python-3.6.9-h5500b2f_0
setuptools	pkgs/main/win-64::setuptools-41.0.1-py36_0
sqlite	pkgs/main/win-64::sqlite-3.29.0-he774522_0
vc	pkgs/main/win-64::vc-14.1-h0510ff6_4
vs2015_runtime	pkgs/main/win-64::vs2015_runtime-14.15.26706-h3a45250_4
wheel	pkgs/main/win-64::wheel-0.33.4-py36_0
wincertstore	pkgs/main/win-64::wincertstore-0.2-py36h7fe50ca_0

Proceed ([y]/n)? **y** **yes install new packages**

```
python-3.6.9      | 20.4 MB | #####
pip-19.2.2       | 1.9 MB  | #####
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#     $ conda activate wazirtensorflow
#
# To deactivate an active environment, use
#
#     $ conda deactivate
#
(base) C:\Users\niaz>
```

(base) C:\Users\niaz>conda activate wazirtensorflow **Now u r in your environment**  
(wazirtensorflow) C:\Users\niaz>

(base) C:\Users\niaz>python --version **on base python version 3.7.3**  
Python 3.7.3  
  
(base) C:\Users\niaz>conda activate wazirtensorflow  
  
(wazirtensorflow) C:\Users\niaz>python --version **In my virtual environment python is 3.6.9**  
Python 3.6.9 :: Anaconda, Inc.  
(wazirtensorflow) C:\Users\niaz>

(wazirtensorflow) C:\Users\niaz>conda install scipy

```
scipy-1.2.0      | 99.2 MB | #####
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
(wazirtensorflow) C:\Users\niaz>pip install --upgrade sklearn
```

(wazirtensorflow) C:\Users\niaz>pip install --upgrade pandas

(wazirtensorflow) C:\Users\niaz>pip install --upgrade pandas-datareader  
Collecting pandas-datareader

(wazirtensorflow) C:\Users\niaz>pip install --upgrade psutil  
Collecting psutil

(wazirtensorflow) C:\Users\niaz>pip install --upgrade tensorflow==1.12.0  
Collecting tensorflow==1.12.0

```
(wazirtensorflow) C:\Users\niaz>pip install --upgrade keras==2.2.4
```

```
keras==2.2.4) (1.1.0)  
'Installing collected packages: pyyaml, keras  
'Successfully installed keras-2.2.4 pyyaml-5.1.2
```

```
(wazirtensorflow) C:\Users\niaz>python  
Python 3.6.9 |Anaconda, Inc.| (default, Jul 30 2019, 14:00:49) [MSC v.1915 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license" for more information.  
>>> import tensorflow as tf  
>>> print(tf.__version__) two times under score  
1.12.0  
>>> import keras  
Using TensorFlow backend.
```

```
(wazirtensorflow) C:\Users\niaz>pip install opencv-python
```

```
Installing collected packages: opencv-python  
Successfully installed opencv-python-4.1.0.25
```

```
(wazirtensorflow) C:\Users\niaz>python  
Python 3.6.9 |Anaconda, Inc.| (default, Jul 30 2019, 14:00:49) [MSC v.1915 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license" for more information.  
>>> import cv2  
>>>
```

```
>>> quit()
```

```
(wazirtensorflow) C:\Users\niaz>conda install jupyter
```

```
(wazirtensorflow) C:\Users\niaz>jupyter notebook
```

```
: import cv2  
  
: img = cv2.imread("C:/Users/niaz/butterfly_GT.bmp")  
  cv2.imshow("output",img)  
  cv2.waitKey(0)  
  cv2.destroyAllWindows()
```



```
: import tensorflow as tf  
  
: print("TensorflowVersion",tf.__version__)  
  
TensorflowVersion 1.12.0
```

```
import tensorflow as tf  
print("TensorflowVersion",tf.__version__)
```

```
import keras.backend as K  
from keras.models import Sequential, Model  
from keras.layers import Dense, Conv2D, Activation, Input
```



```

from keras import optimizers
from keras.models import load_model
import numpy as np
import scipy.misc
import scipy.ndimage
import cv2
import math
import glob

img_shape = (32,32,1)
input_img = Input(shape=(img_shape))
C1 = Conv2D(64,(9,9),padding='SAME',name='CONV1')(input_img)
A1 = Activation('relu', name='act1')(C1)
C2 = Conv2D(32,(1,1),padding='SAME',name='CONV2')(A1)
A2 = Activation('relu', name='act2')(C2)
C3 = Conv2D(1,(5,5),padding='SAME',name='CONV3')(A2)
A3 = Activation('relu', name='act3')(C3)
model = Model(input_img, A3)
opt = optimizers.Adam(lr=0.0003)
model.compile(optimizer=opt,loss='mean_squared_error')
model.summary()

```

```

In [1]: import keras.backend as K
from keras.models import Sequential, Model
from keras.layers import Dense, Conv2D, Activation, Input
from keras import optimizers
from keras.models import load_model
import numpy as np
import scipy.misc
import scipy.ndimage
import cv2
import math
import glob

```

Using TensorFlow backend.

```

In [2]: img_shape = (32,32,1)
input_img = Input(shape=(img_shape))
C1 = Conv2D(64,(9,9),padding='SAME',name='CONV1')(input_img)
A1 = Activation('relu', name='act1')(C1)
C2 = Conv2D(32,(1,1),padding='SAME',name='CONV2')(A1)
A2 = Activation('relu', name='act2')(C2)
C3 = Conv2D(1,(5,5),padding='SAME',name='CONV3')(A2)
A3 = Activation('relu', name='act3')(C3)
model = Model(input_img, A3)
opt = optimizers.Adam(lr=0.0003)
model.compile(optimizer=opt,loss='mean_squared_error')
model.summary()

```

Layer (type)	Output Shape	Param #
=====		
input_1 (InputLayer)	(None, 32, 32, 1)	0



pycharm



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About 4,120,000 results (1.98 seconds)

**PyCharm: the Python IDE for Professional Developers by JetBrains**  
<https://www.jetbrains.com/pycharm>



# Download PyCharm

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Linux

## Professional

For both Scientific and Web Python development. With HTML, JS, and SQL support.

## Community

For pure Python development

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Free, open-source

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stions

download-thanks.html?platform=windows&code=PCC

# Thank you for downloading PyCharm!

Your download should start shortly. If it doesn't, please use [direct link](#)

pycharm-commun....exe  
113/252 MB, 14 mins left



pycharm-commun....exe

pycharm-community-2019.2.1.exe



## Welcome to PyCharm Community Edition Setup

Setup will guide you through the installation of PyCharm Community Edition.

It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.

Click Next to continue.

[Next >](#)[Cancel](#)

## Choose Install Location

Choose the folder in which to install PyCharm Community Edition.

Setup will install PyCharm Community Edition in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.

Destination Folder


Program Files\JetBrains\PyCharm Community Edition 2019.2.1

[Browse...](#)

Space required: 589.0 MB

Space available: 35.0 GB

[< Back](#)[Next >](#)[Cancel](#)



### Installation Options

Configure your PyCharm Community Edition installation

Create Desktop Shortcut

☒ 64-bit launcher

Update PATH variable (restart needed)

☒ Add launchers dir to the PATH

Update context menu

☐ Add "Open Folder as Project"


Create Associations

☐ .py

< Back

Next >

Cancel



### Choose Start Menu Folder

Choose a Start Menu folder for the PyCharm Community Edition shortcuts.

Select the Start Menu folder in which you would like to create the program's shortcuts. You can also enter a name to create a new folder.

7-Zip

Accessibility

Accessories

Administrative Tools

Anaconda3 (64-bit)

DLL-Files.com Client

EndNote

Grammarly

HP

JabRef

LINE

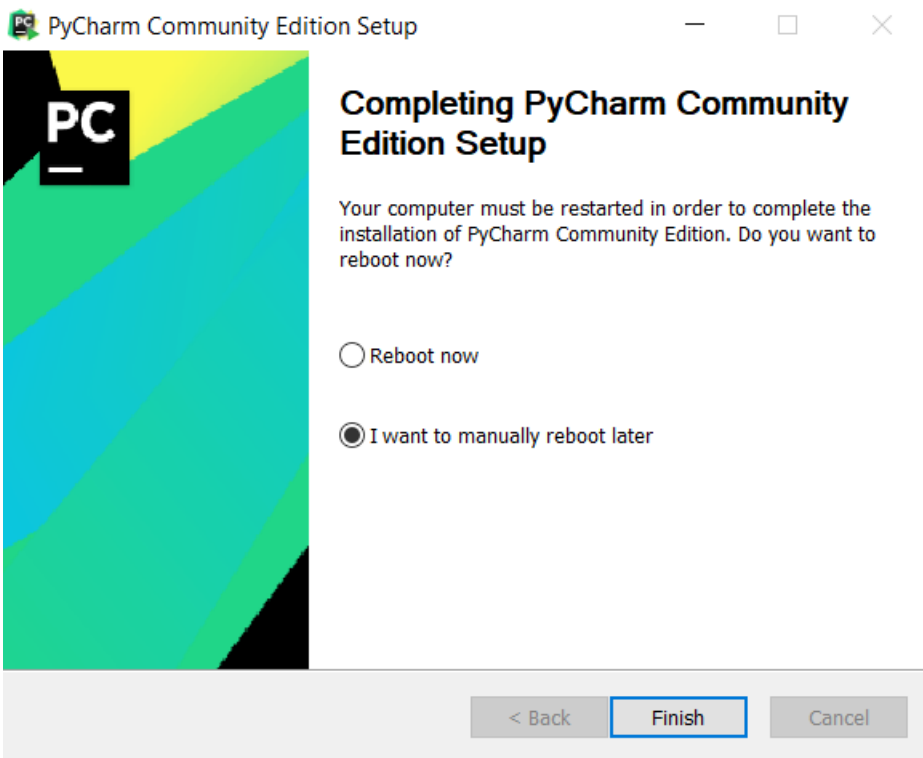
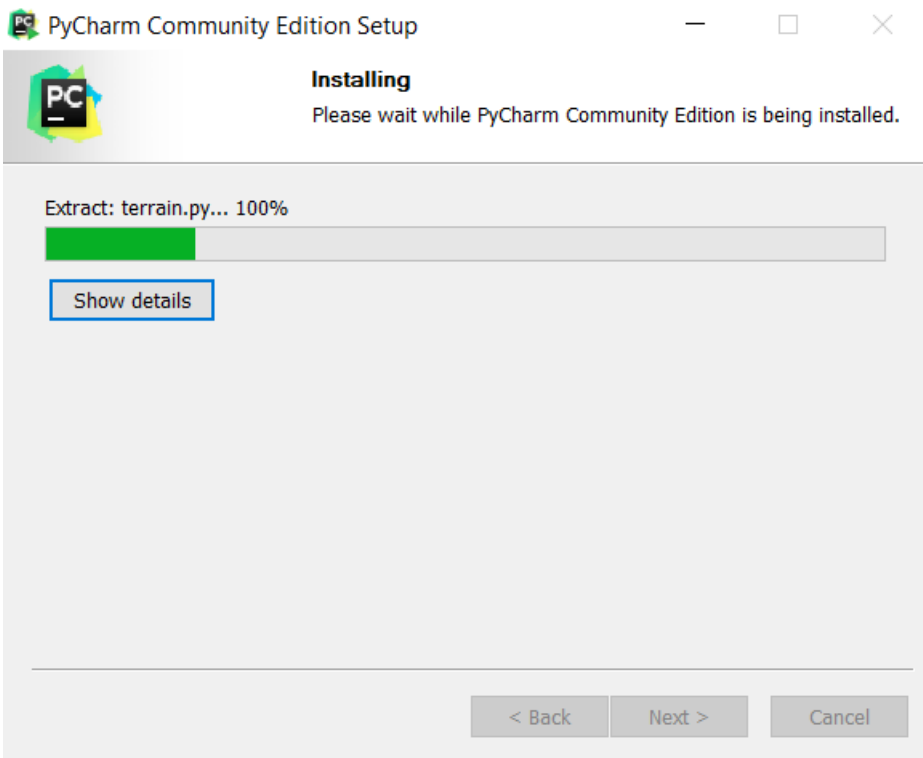
Maintenance

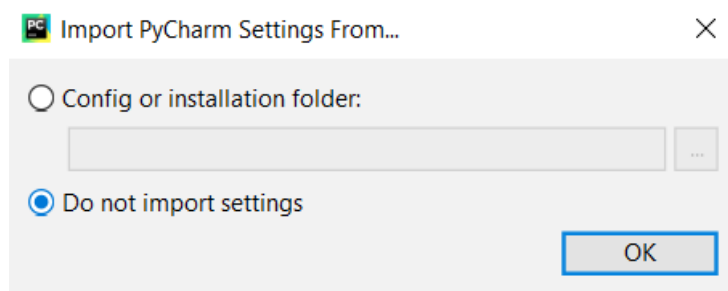
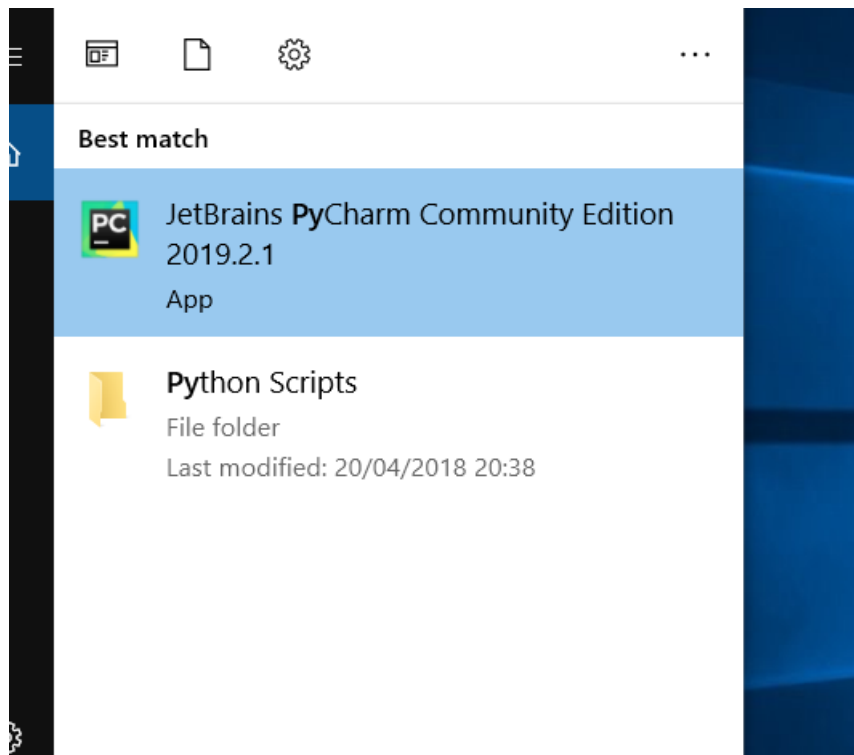
MATLAB R2016a

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Install

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