

▼ Get Python Version

```
1 !python --version

Python 3.10.12
```

▼ Install Python 3.9

```
1 # install python 3.9
2 !sudo apt-get update -y
3 !sudo apt-get install python3.9
```

Get:1 <https://cloud.r-project.org/bin/linux/ubuntu> jammy-cran40/ InRelease [3,626 B]
Hit:2 <https://ppa.launchpadcontent.net/c2d4u.team/c2d4u4.0+/ubuntu> jammy InRelease
Hit:3 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86_64 InRelease
Get:4 <https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu> jammy InRelease [18.1 kB]
Get:5 <http://security.ubuntu.com/ubuntu> jammy-security InRelease [110 kB]
Hit:6 <http://archive.ubuntu.com/ubuntu> jammy InRelease
Hit:7 <https://ppa.launchpadcontent.net/graphics-drivers/ppa/ubuntu> jammy InRelease
Hit:8 <https://ppa.launchpadcontent.net/ubuntugis/ppa/ubuntu> jammy InRelease
Get:9 <http://archive.ubuntu.com/ubuntu> jammy-updates InRelease [119 kB]
Get:10 <https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu> jammy/main amd64 Packages [21.8 kB]
Get:11 <http://archive.ubuntu.com/ubuntu> jammy-backports InRelease [109 kB]
Get:12 <http://archive.ubuntu.com/ubuntu> jammy-updates/main amd64 Packages [1,136 kB]
Get:13 <http://archive.ubuntu.com/ubuntu> jammy-updates/universe amd64 Packages [1,247 kB]
Fetched 2,764 kB in 1s (1,862 kB/s)
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 libpython3.9-minimal libpython3.9-stdlib mailcap mime-support
 python3.9-minimal
Suggested packages:
 python3.9-venv binfmt-support
The following NEW packages will be installed:
 libpython3.9-minimal libpython3.9-stdlib mailcap mime-support python3.9
 python3.9-minimal
0 upgraded, 6 newly installed, 0 to remove and 16 not upgraded.
Need to get 5,279 kB of archives.
After this operation, 19.4 MB of additional disk space will be used.
Get:1 <https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu> jammy/main amd64 libpython3.9-minimal amd64 3.9.18-1+jammy1 [835
Get:2 <https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu> jammy/main amd64 python3.9-minimal amd64 3.9.18-1+jammy1 [2,079
Get:3 <http://archive.ubuntu.com/ubuntu> jammy/main amd64 mailcap all 3.70+nmulubuntu1 [23.8 kB]
Get:4 <https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu> jammy/main amd64 libpython3.9-stdlib amd64 3.9.18-1+jammy1 [1,84
Get:5 <http://archive.ubuntu.com/ubuntu> jammy/main amd64 mime-support all 3.66 [3,696 B]
Get:6 <https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu> jammy/main amd64 python3.9 amd64 3.9.18-1+jammy1 [496 kB]
Fetched 5,279 kB in 0s (10.7 MB/s)
debconf: unable to initialize frontend: Dialog
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf
debconf: falling back to frontend: Readline
debconf: unable to initialize frontend: Readline
debconf: (This frontend requires a controlling tty.)
debconf: falling back to frontend: Teletype
dpkg-preconfigure: unable to re-open stdin:
Selecting previously unselected package libpython3.9-minimal:amd64.
(Reading database ... 120831 files and directories currently installed.)
Preparing to unpack .../0-libpython3.9-minimal_3.9.18-1+jammy1_amd64.deb ...
Unpacking libpython3.9-minimal:amd64 (3.9.18-1+jammy1) ...
Selecting previously unselected package python3.9-minimal.
Preparing to unpack .../1-python3.9-minimal_3.9.18-1+jammy1_amd64.deb ...
Unpacking python3.9-minimal (3.9.18-1+jammy1) ...
Selecting previously unselected package mailcap.
Preparing to unpack .../2-mailcap_3.70+nmulubuntu1_all.deb ...
Unpacking mailcap (3.70+nmulubuntu1) ...
Selecting previously unselected package mime-support.
Preparing to unpack .../3-mime-support_3.66_all.deb ...
Unpacking mime-support (3.66) ...
Selecting previously unselected package libpython3.9-stdlib:amd64.
Preparing to unpack .../4-libpython3.9-stdlib_3.9.18-1+jammy1_amd64.deb ...
Unpacking libpython3.9-stdlib:amd64 (3.9.18-1+jammy1) ...
Selecting previously unselected package python3.9.
Preparing to unpack .../5-python3.9_3.9.18-1+jammy1_amd64.deb ...
Unpacking python3.9 (3.9.18-1+jammy1) ...
Setting up libpython3.9-minimal:amd64 (3.9.18-1+jammy1) ...
Setting up python3.9-minimal (3.9.18-1+jammy1) ...
Setting up mailcap (3.70+nmulubuntu1) ...
Setting up mime-support (3.66) ...
Setting up libpython3.9-stdlib:amd64 (3.9.18-1+jammy1) ...
Setting up python3.9 (3.9.18-1+jammy1) ...
update-alternatives: using /usr/bin/python3.9 to provide /usr/bin/python3 (python3) in auto mode

```
1 # check python version
2 !python --version
```

```
Python 3.9.18
```

▼ Install pip for Python Version 3.9

```
1 # install pip for new python
2 !sudo apt-get install python3.9-distutils
3 !wget https://bootstrap.pypa.io/get-pip.py
4 !python get-pip.py
5
6 # credit of these last two commands belongs to @Erik
7 # install colab's dependencies
8 !python -m pip install ipython ipython_genutils ipykernel jupyter_console prompt_toolkit httplib2 astor
9
10 # link to the old google package
11 !ln -s /usr/local/lib/python3.9/dist-packages/google

Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  python3.9-lib2to3
The following NEW packages will be installed:
  python3.9-distutils python3.9-lib2to3
0 upgraded, 2 newly installed, 0 to remove and 16 not upgraded.
Need to get 319 kB of archives.
After this operation, 1,234 kB of additional disk space will be used.
Get:1 https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu jammy/main amd64 python3.9-lib2to3 all 3.9.18-1+jammy1 [127 kB]
Get:2 https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu jammy/main amd64 python3.9-distutils all 3.9.18-1+jammy1 [193 ki
Fetched 319 kB in 0s (1,759 kB/s)
debconf: unable to initialize frontend: Dialog
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf
debconf: falling back to frontend: Readline
debconf: unable to initialize frontend: Readline
debconf: (This frontend requires a controlling tty.)
debconf: falling back to frontend: Teletype
dpkg-preconfigure: unable to re-open stdin:
Selecting previously unselected package python3.9-lib2to3.
(Reading database ... 121496 files and directories currently installed.)
Preparing to unpack .../python3.9-lib2to3_3.9.18-1+jammy1_all.deb ...
Unpacking python3.9-lib2to3 (3.9.18-1+jammy1) ...
Selecting previously unselected package python3.9-distutils.
Preparing to unpack .../python3.9-distutils_3.9.18-1+jammy1_all.deb ...
Unpacking python3.9-distutils (3.9.18-1+jammy1) ...
Setting up python3.9-lib2to3 (3.9.18-1+jammy1) ...
Setting up python3.9-distutils (3.9.18-1+jammy1) ...
--2023-08-28 01:27:25-- https://bootstrap.pypa.io/get-pip.py
Resolving bootstrap.pypa.io (bootstrap.pypa.io)... 151.101.0.175, 151.101.64.175, 151.101.128.175, ...
Connecting to bootstrap.pypa.io (bootstrap.pypa.io)|151.101.0.175|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2605506 (2.5M) [text/x-python]
Saving to: 'get-pip.py'

get-pip.py          100%[=====>]   2.48M  --.-KB/s   in 0.03s

2023-08-28 01:27:25 (96.7 MB/s) - 'get-pip.py' saved [2605506/2605506]

Collecting pip
  Obtaining dependency information for pip from https://files.pythonhosted.org/packages/50/c2/e06851e8cc28dcad7c155f4753da88:
  Downloading pip-23.2.1-py3-none-any.whl.metadata (4.2 kB)
Collecting setuptools
  Obtaining dependency information for setuptools from https://files.pythonhosted.org/packages/4f/ab/0bcfebd3bfa8554b2b2c9:
  Downloading setuptools-68.1.2-py3-none-any.whl.metadata (6.2 kB)
Collecting wheel
  Obtaining dependency information for wheel from https://files.pythonhosted.org/packages/b8/8b/31273bf66016be6ad22bb7345c37:
  Downloading wheel-0.41.2-py3-none-any.whl.metadata (2.2 kB)
Downloading pip-23.2.1-py3-none-any.whl (2.1 MB)
----- 2.1/2.1 MB 21.8 MB/s eta 0:00:00
Downloading setuptools-68.1.2-py3-none-any.whl (805 kB)
----- 805.1/805.1 kB 31.4 MB/s eta 0:00:00
Downloading wheel-0.41.2-py3-none-any.whl (64 kB)
----- 64.8/64.8 kB 7.7 MB/s eta 0:00:00

Installing collected packages: wheel, setuptools, pip
Successfully installed pip-23.2.1 setuptools-68.1.2 wheel-0.41.2
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package ma
```

```

1 # See list of installed Python Versions
2 !sudo update-alternatives --config python3

There is only one alternative in link group python3 (providing /usr/bin/python3): /usr/bin/python3.9
Nothing to configure.

1 # install linux dependencies
2 !sudo apt-get install build-essential swig python3-dev
3 !pip install auto-sklearn

Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
build-essential is already the newest version (12.9ubuntu3).
python3-dev is already the newest version (3.10.6-1-22.04).
python3-dev set to manually installed.
The following additional packages will be installed:
  swig4.0
Suggested packages:
  swig-doc swig-examples swig4.0-examples swig4.0-doc
The following NEW packages will be installed:
  swig swig4.0
0 upgraded, 2 newly installed, 0 to remove and 16 not upgraded.
Need to get 1,116 kB of archives.
After this operation, 5,542 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/universe amd64 swig4.0 amd64 4.0.2-1ubuntu1 [1,110 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy/universe amd64 swig all 4.0.2-1ubuntu1 [5,632 B]
Fetched 1,116 kB in 1s (1,359 kB/s)
debconf: unable to initialize frontend: Dialog
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf)
debconf: falling back to frontend: Readline
debconf: unable to initialize frontend: Readline
debconf: (This frontend requires a controlling tty.)
debconf: falling back to frontend: Teletype
dpkg-preconfigure: unable to re-open stdin:
Selecting previously unselected package swig4.0.
(Reading database ... 121635 files and directories currently installed.)
Preparing to unpack .../swig4.0_4.0.2-1ubuntu1_amd64.deb ...
Unpacking swig4.0 (4.0.2-1ubuntu1) ...
Selecting previously unselected package swig.
Preparing to unpack .../swig_4.0.2-1ubuntu1_all.deb ...
Unpacking swig (4.0.2-1ubuntu1) ...
Setting up swig4.0 (4.0.2-1ubuntu1) ...
Setting up swig (4.0.2-1ubuntu1) ...
Processing triggers for man-db (2.10.2-1) ...
Collecting auto-sklearn
  Downloading auto-sklearn-0.15.0.tar.gz (6.5 MB)
    

6.5/6.5 MB 19.6 MB/s eta 0:00:00


  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Requirement already satisfied: setuptools in /usr/local/lib/python3.9/dist-packages (from auto-sklearn) (68.1.2)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.9/dist-packages (from auto-sklearn) (4.7.1)
Requirement already satisfied: distro in /usr/lib/python3/dist-packages (from auto-sklearn) (1.7.0)
Collecting numpy>=1.9.0 (from auto-sklearn)
  Obtaining dependency information for numpy>=1.9.0 from https://files.pythonhosted.org/packages/69/1f/c95b1108a9972a52d7b1bf
  Downloading numpy-1.25.2-cp39-cp39-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (5.6 kB)
Collecting scipy>=1.7.0 (from auto-sklearn)
  Obtaining dependency information for scipy>=1.7.0 from https://files.pythonhosted.org/packages/a3/d3/f88285098505c8e5d1416
  Downloading scipy-1.11.2-cp39-cp39-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (59 kB)
    

59.1/59.1 kB 6.3 MB/s eta 0:00:00


Collecting joblib (from auto-sklearn)
  Obtaining dependency information for joblib from https://files.pythonhosted.org/packages/10/40/d551139c85db202f1f384ba8bcf
  Downloading joblib-1.3.2-py3-none-any.whl.metadata (5.4 kB)
Collecting scikit-learn<0.25.0,>=0.24.0 (from auto-sklearn)
  Downloading scikit_learn-0.24.2-cp39-cp39-manylinux2010_x86_64.whl (23.8 MB)
    

23.8/23.8 MB 89.0 MB/s eta 0:00:00


Collecting dask>=2021.12 (from auto-sklearn)
1 import autosklearn

```

```
-----  
ModuleNotFoundError                                Traceback (most recent call last)  
<ipython-input-8-3c38f1248582> in <cell line: 1>()  
----> 1 import autosklearn
```

ModuleNotFoundError: No module named 'autosklearn'

NOTE: If your import is failing due to a missing package, you can manually install dependencies using either !pip or !apt.

To view examples of installing some common dependencies, click the "Open Examples" button below.

OPEN EXAMPLES

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