Install Python packages using APT

APT (Advanced Packaging Tool) is a software package management tool used to install, upgrade and manage software packages on Debian and Ubuntu systems.

Install python3-build-hat

The packages for this installation method are tested, often precompiled so they install faster, and are designed for Raspberry Pi OS.

```
sudo apt install python3-build-hat
```

```
pi@raspberrypi:~ $ sudo apt install python3-build-hat
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
  python-build-hat-doc
The following NEW packages will be installed:
  python3-build-hat
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 47.6 kB of archives.
After this operation, 163 kB of additional disk space will be used.
Get:1 http://archive.raspberrypi.com/debian bookworm/main arm64 python3-build-hat arm64 0.5.12-0~rpt1 [47.6 kB]
Fetched 47.6 kB in 1s (36.4 kB/s)
Selecting previously unselected package python3-build-hat.
(Reading database ... 131673 files and directories currently installed.)
Preparing to unpack .../python3-build-hat_0.5.12-0~rpt1_arm64.deb ...
Unpacking python3-build-hat (0.5.12-0~rpt1) ...
Setting up python3-build-hat (0.5.12-0~rpt1) ...
```

Install pip

To use APT to install Python packages, first you need to ensure that Python and pip tools are installed:

(The system has these two tools installed by default. If they are not installed, you can enter the following command to install them)

```
sudo apt install python3-pip
```

Use pip to download and install specified Python packages from the Python package index.