

# INSTALLING LLAMA AI MODEL IN ANDROID PHONE USING OLLAMA AND TERMUX

Repo link : <https://github.com/LegitCoconut/llama-on-android>

LegitCoconut - ( [www.github.com/LegitCoconut](https://www.github.com/LegitCoconut) )

Install termux, update all packages

Update all the packages in termux using the  
**pkg update** command

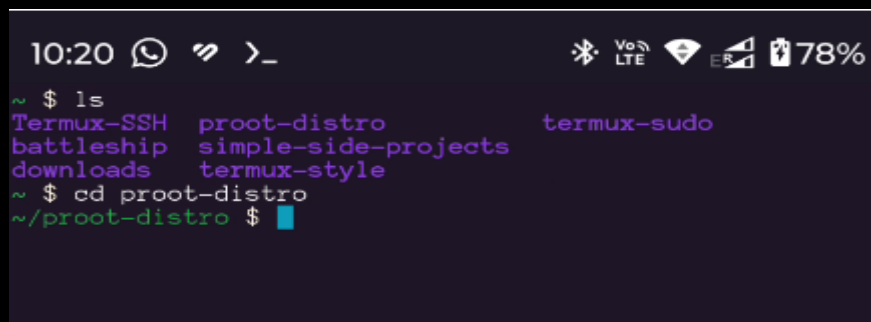
make sure you have git and curl installed

now install proot-distro from github

first clone the whole proot repository to termux and run  
the install.sh file

```
git clone https://github.com/termux/proot-distro
```

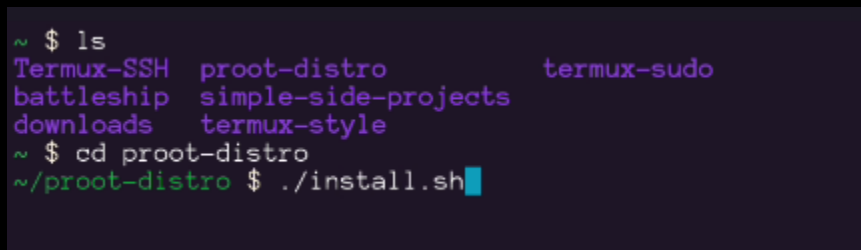
```
cd proot-distro
```



A screenshot of a terminal window on an Android device. The status bar at the top shows the time 10:20, signal strength, VoLTE, Wi-Fi, 5G, and a battery level of 78%. The terminal output shows the following commands and results:

```
~ $ ls
Termux-SSH  proot-distro          termux-sudo
battleship  simple-side-projects
downloads   termux-style
~ $ cd proot-distro
~/proot-distro $
```

```
./install.sh
```



A screenshot of a terminal window showing the execution of the install.sh script. The terminal output is as follows:

```
~ $ ls
Termux-SSH  proot-distro          termux-sudo
battleship  simple-side-projects
downloads   termux-style
~ $ cd proot-distro
~/proot-distro $ ./install.sh
```

```
proot-distro list
```

```
~/proot-distro $ proot-distro list

Supported distributions (format: name < alias >):

* Alpine Linux < alpine >
* Arch Linux < archlinux >
* Artix Linux < artix >
* Chimera Linux < chimera >
* Debian (bookworm) < debian >
* Debian (bullseye) < debian-oldstable >
* deepin < deepin >
* Fedora < fedora >
* Manjaro < manjaro >
* OpenKylin < openkylin >
* OpenSUSE < opensuse >
* Pardus < pardus >
* Ubuntu (24.04) < ubuntu >
* Ubuntu (22.04) < ubuntu-oldlts >
* Void Linux < void >

Install selected one with: proot-distro install <alias>

~/proot-distro $
```

```
proot-distro install ubuntu
```

```
~/proot-distro $ proot-distro list

Supported distributions (format: name < alias >):

* Alpine Linux < alpine >
* Arch Linux < archlinux >
* Artix Linux < artix >
* Chimera Linux < chimera >
* Debian (bookworm) < debian >
* Debian (bullseye) < debian-oldstable >
* deepin < deepin >
* Fedora < fedora >
* Manjaro < manjaro >
* OpenKylin < openkylin >
* OpenSUSE < opensuse >
* Pardus < pardus >
* Ubuntu (24.04) < ubuntu >
* Ubuntu (22.04) < ubuntu-oldlts >
* Void Linux < void >

Install selected one with: proot-distro install <alias>

~/proot-distro $ proot-distro install ubuntu

Error: distribution 'ubuntu' is already installed.

Log in:      proot-distro login ubuntu
Reinstall:   proot-distro reset ubuntu
Uninstall:   proot-distro remove ubuntu

~/proot-distro $
```

## proot-distro login ubuntu

```
~/proot-distro $ proot-distro list

Supported distributions (format: name < alias >):

* Alpine Linux < alpine >
* Arch Linux < archlinux >
* Artix Linux < artix >
* Chimera Linux < chimera >
* Debian (bookworm) < debian >
* Debian (bullseye) < debian-oldstable >
* deepin < deepin >
* Fedora < fedora >
* Manjaro < manjaro >
* OpenKylin < openkylin >
* OpenSUSE < opensuse >
* Pardus < pardus >
* Ubuntu (24.04) < ubuntu >
* Ubuntu (22.04) < ubuntu-oldlts >
* Void Linux < void >

Install selected one with: proot-distro install <alias>

~/proot-distro $ proot-distro install ubuntu

Error: distribution 'ubuntu' is already installed.

Log in:      proot-distro login ubuntu
Reinstall:   proot-distro reset ubuntu
Uninstall:   proot-distro remove ubuntu

~/proot-distro $ proot-distro login ubuntu
```

## neofetch

```
root@localhost:~# neofetch

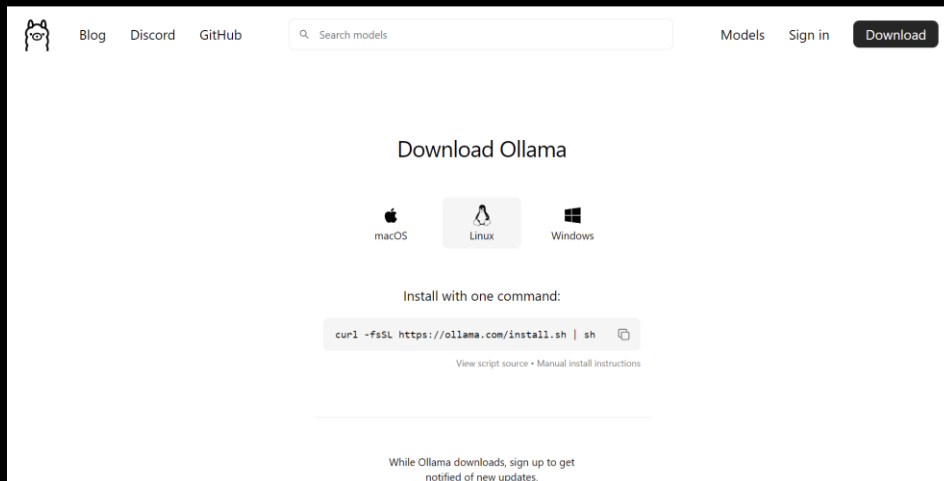
      .-/+0000000+/-./
    `:+ssssssssssssssss+:`
    -+ssssssssssssssssyyss+--
    .ossssssssssssssssdMMMNysssso.
    /ssssssssssshdmmNNmmyNMMMNhssssss/
    +ssssssssshhvdMNNMNNMNdDdDyssssss+
    /ssssssshNMMNn/hhyyyhMNNMNNhssssss/
    .sssssssdMNNMnhssssssshNMMMdssssss.
    +ssssshhNMMNysssssssssyNMMMyssssss+
    ossyNMMMNyMMhssssssssssshmmhssssssso
    ossyNMMMNyMMhssssssssssshmmhssssssso
    +ssssshhNMMNysssssssssyNMMMyssssss+
    .sssssssdMNNMnhssssssshNMMMdssssss/
    /ssssssshNMMNn/hhyyyhMNNMNNhssssss/
    +sssssssdnydMNNMNNMNdDdDyssssss+
    /ssssssshdmmNNNmyNMMMNhssssss/
    .ossssssssssssssdMMMNysssso.
    -+ssssssssssssssyyss+--
    `:+ssssssssssssss+:`
    .-/+0000000+/-./

root@localhost:~#
```

```
root@localhost
OS: Ubuntu 24.04 LTS a
Host: motorola moto g3
Kernel: 6.2.1-PRoot-Di
Uptime: 2 mins
Packages: 81 (dpkg), 1
Shell: bash 5.2.21
Terminal: proot
CPU: Qualcomm KHAJE (8
Memory: 3559MiB / 7664
```

Now we are done with the installation of proot terminal to get super user privileges which are not given out of the box by termux

# INSTALLING OLLAMA IN UBUNTU



```
root@localhost:~# neofetch
.-/+oossssoo+/-.
`:+ssssssssssssssss+.`
  -+ssssssssssssssssyyss+--
  .ossssssssssssssssdMMMNsosso.
  /ssssssssssshdmmNNmyNNMMNhsssss/
  +ssssssssshmydMMMMMMNddddyssssss+
  /ssssssshNMMMyhhyyyhmNNMMNhssssss/
  .sssssssdMMMNhssssssshNMMMdssssss.
  +ssssshhyNMMNysssssssssyNMMMyssss+
  ossyNMMMNyMMhssssssssshmmhssssso
  ossyNMMMNyMMhssssssssshmmhssssso
  +ssssshhyNMMNysssssssssyNMMMyssss+
  .sssssssdMMMNhssssssshNMMMdssssss.
  /ssssssshNMMMyhhyyyhdNMMNhssssss/
  +sssssssdmydMMMMMMNdddyssssss+
  /ssssssssshdmmNNmyNNMMNhsssss/
  .ossssssssssssssdMMMNsosso.
  -+ssssssssssssssssyyss+--
  `:+ssssssssssssssss+.`
  .-/+oossssoo+/-.

root@localhost
OS: Ubuntu 24.04 LTS a
Host: motorola moto g3
Kernel: 6.2.1-PRoot-Di
Uptime: 2 mins
Packages: 81 (dpkg), 1
Shell: bash 5.2.21
Terminal: proot
CPU: Qualcomm KHAJE (8
Memory: 3559MiB / 7664
```

```
curl -fsSL https://ollama.com/install.sh | sh
```

```
root@localhost:~# curl -fsSL https://ollama.com/install.sh | sh
>>> Installing ollama to /usr/local
>>> Downloading Linux arm64 bundle
# 2.4%
```

```
root@localhost:~# curl -fsSL https://ollama.com/install.sh | sh
>>> Installing ollama to /usr/local
>>> Downloading Linux arm64 bundle
##### 17.9%
```

After downloading llama client, you should download the actual llm files

```
Ollama run llama3.2:1b
```

While trying to fetch the files from the ollama server you could get a error due to some invalid signature type, this is due to issue with the current date and time of the ubuntu s/m then update time using this package

```
apt install ntpdate
```

```
time=2024-11-08T22:35:00.089+05:30 level=INFO source=server.go:606 msg="llama runner started in 4.06 seconds"
[GIN] 2024/11/08 - 22:35:00 | 200 | 4.233064275s | 127.0.0.1 | POST | "/api/generate"
>>>
>>> hello llama
Hello there, fellow llama enthusiast! How can I assist you today? Do you have a question about llamas, or perhaps want to share some adorable llama pictures with me?[GIN] 2024/11/08 - 22:35:16 | 200 | 10.520703913s | 127.0.0.1 | POST | "/api/chat"
```

After download completes it automatically runs up llama3.2:1b for you

To see all the installed llms

```
Ollama list
```

```
root@localhost:~# ollama list
[GIN] 2024/11/08 - 22:34:24 | 200 | 141.875µs | 127.0.0.1 | HEAD | "/"
[GIN] 2024/11/08 - 22:34:24 | 200 | 10.790522ms | 127.0.0.1 | GET | "/api/tags"
NAME          ID          SIZE    MODIFIED
llama3.2:1b   baf6a787dfff 1.3 GB   7 minutes ago
root@localhost:~#
```

## Some useful prompts for llm

/set	Set session variables
/show	Show model information
/load <model>	Load a session or model
/save <model>	Save your current session
/clear	Clear session context
/bye	Exit
/? , /help	Help for a command
/? shortcuts	Help for keyboard shortcuts

For more info

Contact : [labzmad44@gmail.com](mailto:labzmad44@gmail.com)  
[adisplash@gmx.com](mailto:adisplash@gmx.com)