How I installed OpenCV and Mediapipe on the Raspberry Pi 3 A+

I connected to the Raspberry Pi via SSH and performed all these steps from the command line. Please type the blue lines into the Raspberry Pi command line - don't type the \$ symbol.

During this installation process I suggest that you connect your Raspberry Pi to mains power instead of battery power.

Step 1: Make sure the Pi is using the whole SD card:
\$ sudo raspi-config
Select Advanced Options> Expand Filesystem
Please refer to this blog post if you are not sure how to perform the above step: https://www.jeremymorgan.com/tutorials/raspberry-pi/how-to-install-opency-raspberry-pi/
The Pi should automatically reboot after this selection is completed. If it does not auto reboot then run:
Log back into your Raspberry Pi's command line. Check that space is available: \$ df -h
Step 2: Update and Upgrade
\$ sudo apt-get update \$ sudo apt-get upgrade

```
# Step 3: Install OpenCV
# .....
```

Ref: https://www.youtube.com/watch?v=xlmJsTeZL3w

I watched the above video. These are the steps that worked for me. Numpy is installed along with OpenCV.

Ref: mediapipe-rpi4 0.8.8

https://pypi.org/project/mediapipe-rpi4/

I followed the instructions (above link) for Raspberry Pi 3. I installed Mediapipe after installing OpenCV therefore, I didn't need to install the dependencies that are mentioned.

```
Install Mediapipe
$ sudo pip3 install mediapipe-rpi3
# Step 5: Testing
# .....
```

To check that everything is working, create a new python file in Thonny or another Raspberry Pi IDE. Then type:

```
import cv2
import numpy as np
import mediapipe as mp
print("Packages are installed")
```

If you are able to run this code then the packages have been successfully installed.

-- The End