

SIZZER

By: Winds of Winter

Aim

Main motive of the project is to take the image of any person and tell him the required size of the clothes he is looking for.

The problem or challenge

While shopping online, it is often difficult to order correct sizes as per different brands. Well, now no more!

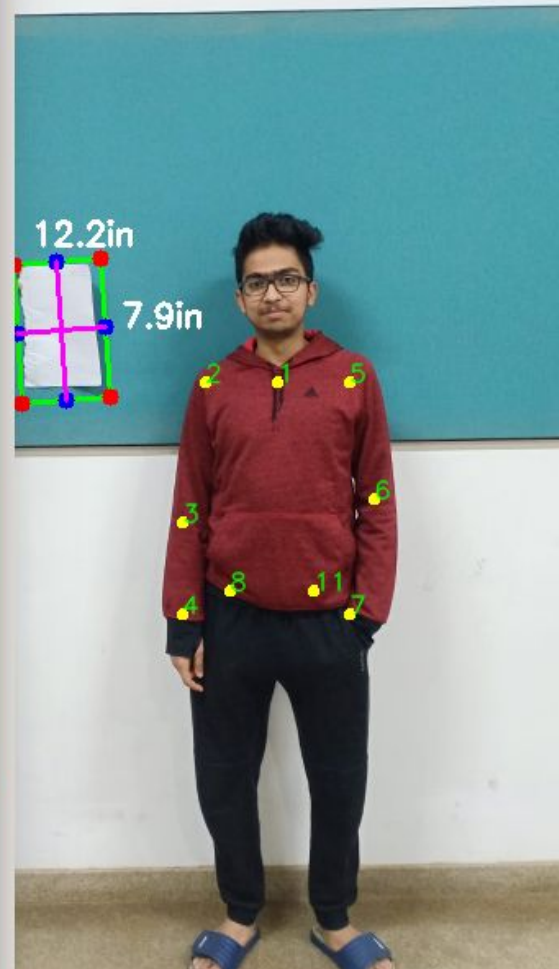
Functionality

Project detects the dimensions of a human body required for the clothes sizes. It does that by detecting the dimensions of the reference A4 sheet and measuring them. Then, it recognises the location of joints in the picture and then calculates the distance between the joints with respect to the reference sheet. Then, using a pre-defined range, as per the clothe vendor, it tells the corresponding size.

```

abcd.py getModels.sh hack_v15 main.py pose src
mohit@mohit-HP-Notebook:~/Documents/hackathon$ python3 ab
python3: can't open file 'ab': [Errno 2] No such file or directory
mohit@mohit-HP-Notebook:~/Documents/hackathon$ python3 abcd.py
^Z
[1]+  Stopped                  python3 abcd.py
mohit@mohit-HP-Notebook:~/Documents/hackathon$ xkill
Select the window whose client you wish to kill with button 1....
xkill: killing creator of resource 0x3c00018
mohit@mohit-HP-Notebook:~/Documents/hackathon$ python3 main.py --images src/test
test1.jpeg test2.jpeg test3.jpeg
mohit@mohit-HP-Notebook:~/Documents/hackathon$ python3 main.py --images src/test3.jpeg
--width 7.87
usage: main.py [-h] -i IMAGE -w WIDTH
main.py: error: the following arguments are required: -i/--image
mohit@mohit-HP-Notebook:~/Documents/hackathon$ python3 main.py --image src/test3.jpeg -
-width 7.87
shoulder 20.462
length 31.65488888888889
Arm-length 29.206444444444447
Your T-shirt size is Large
^Z
[2]+  Stopped                  python3 main.py --image src/test3.jpeg --width 7.87
mohit@mohit-HP-Notebook:~/Documents/hackathon$ python3 main.py --image src/test3.jpeg -
-width 7.87
shoulder 3.4701606604776636
length 5.482853843554708
Arm-length 4.372402432201856
Your T-shirt size is Small
^Z
[3]+  Stopped                  python3 main.py --image src/test3.jpeg --width 7.87
mohit@mohit-HP-Notebook:~/Documents/hackathon$ python3 main.py --image src/test1.jpeg -
-width 7.87
shoulder 12.909016260264858
length 18.336670824230853

```



Your T-shirt size is Large

^Z

[2]+ Stopped python3 main.py --image src/test3.jpeg --width 7.87

mohit@mohit-HP-Notebook:~/Documents/hackathon\$ python3 main.py --image s

rc/test3.jpeg --width 7.87

shoulder 3.4701606604776636

length 5.482853843554708

Arm-length 4.372402432201856

Your T-shirt size is Small

^Z

[3]+ Stopped python3 main.py --image src/test3.jpeg --width 7.87

mohit@mohit-HP-Notebook:~/Documents/hackathon\$ python3 main.py --image s

rc/test1.jpeg --width 7.87

shoulder 12.909016260264858

length 18.336670824239853

Arm-length 20.39037795655472

Your T-shirt size is Medium

^Z

[4]+ Stopped python3 main.py --image src/test1.jpeg --width 7.87

mohit@mohit-HP-Notebook:~/Documents/hackathon\$ python3 main.py --image h

ack_v15/src/test --width 7.87

test1.jpeg test2.jpeg

mohit@mohit-HP-Notebook:~/Documents/hackathon\$ python3 main.py --image h

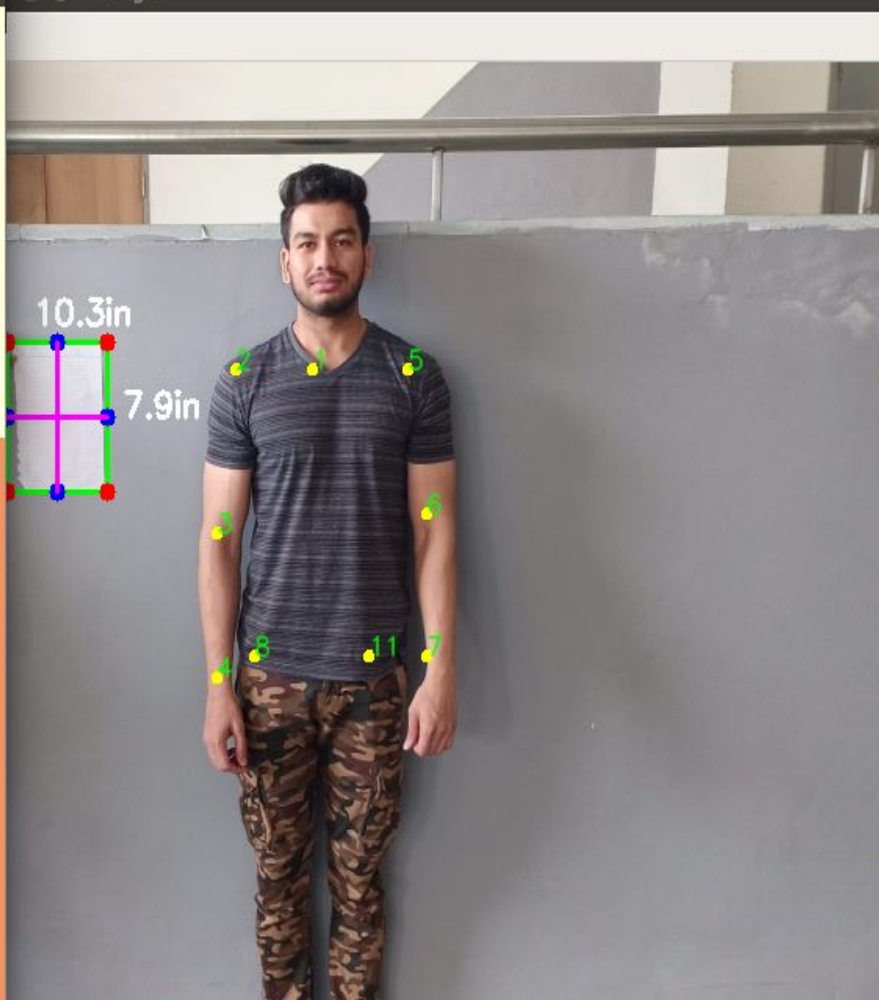
ack_v15/src/test2.jpeg --width 7.87

shoulder 13.526562499999999

length 19.79796875

Arm-length 21.27359375

Your T-shirt size is Large



Further Development

- Can be used by online shopping sites like Myntra, Zara, Flipkart etc.
- Can be used by data analysis purposes by companies to ascertain the size in groups photos.
- Can be developed further into a mobile app and a web app to surprise family and friends

Thank You :)

Conclusion

Special thanks to Anshuman Singh, 2017025 for his unconditional support at crucial times.