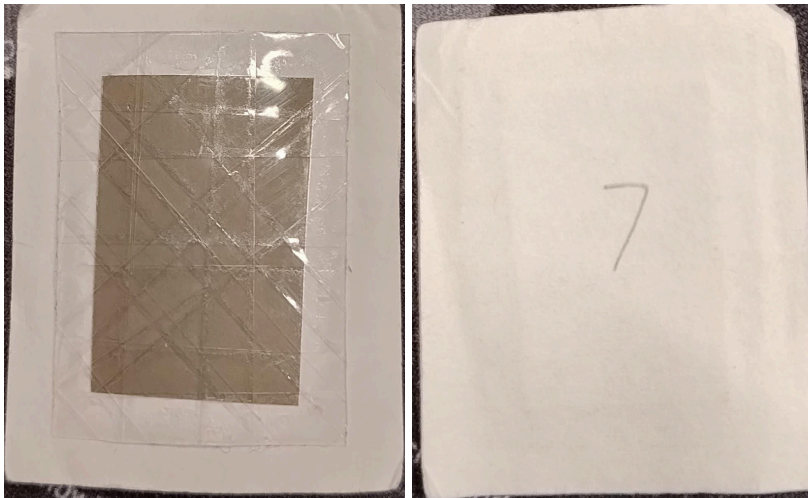


How to make Training Dataset

1. Make the pattern on the front and write the sheet number on the back, as shown.



2. Take **5 different images** from your camera; **don't rotate your phone**.



Note: You can vary the distance between the pattern and the camera, change the background, or tilt your phone to get different images. **Don't include any other pattern in the same image and don't rotate the camera; otherwise, the pattern will change.**

3. Change the name of the image to **pat_{sheet number}_{angle}_{image count}.jpg** (any format: png, jpg, jpeg, **but not HEIC**).

Note: Let's say you are using sheet 7 and both phone and pattern are in line (i.e, the angle between them is 0) and you captured 5 images; then the images will be renamed as pat_07_0_01.jpg, pat_07_0_02.jpg, pat_07_0_03.jpg, pat_07_0_04.jpg, pat_07_0_05.jpg.

4. Now **rotate your phone anticlockwise a little** (about 45 degrees) to get a new pattern and then repeat the process 2 and 3.

Note: Now, for these new images, names will be: pat_07_-1_01.jpg, pat_07_-1_02.jpg, pat_07_-1_03.jpg, pat_07_-1_04.jpg, pat_07_-1_05.jpg

5. Now **rotate your phone clockwise a little** and repeat processes 2 and 3.

Note: Now, for these new images, names will be: pat_07_1_01.jpg, pat_07_1_02.jpg, pat_07_1_03.jpg, pat_07_1_04.jpg, pat_07_1_05.jpg

6. Change the sheet and repeat process 2 to 5 for every sheet.

Note: Remember to **change the sheet number while renaming**.

The diagram below explains the angle label a little better.



-1 Anti-Clockwise



0 Straight



1 Clockwise

We need at least 5 new sheets, i.e., 5 sheets x 3 angles x 5 images/angle = **75 new images**.