**Data Augmentation:**

We want our model to be robust for any kind of changes in original image like rotation, scale, cropping, flip(specially for face), shift(horizontal/vertical), zoom, shear(stretch).

So to make our model robust against all those changes what we do is create all the above type of images using real image, example in below image the i/p image is of 6 so we are rotating it, zoom in, zooming, shifting.

So basically we are creating more images of one image so that model can detect 6, even if it changes.

This whole process is called Data-Augmentation.







