

AI-based localization and classification of skin disease with erythema

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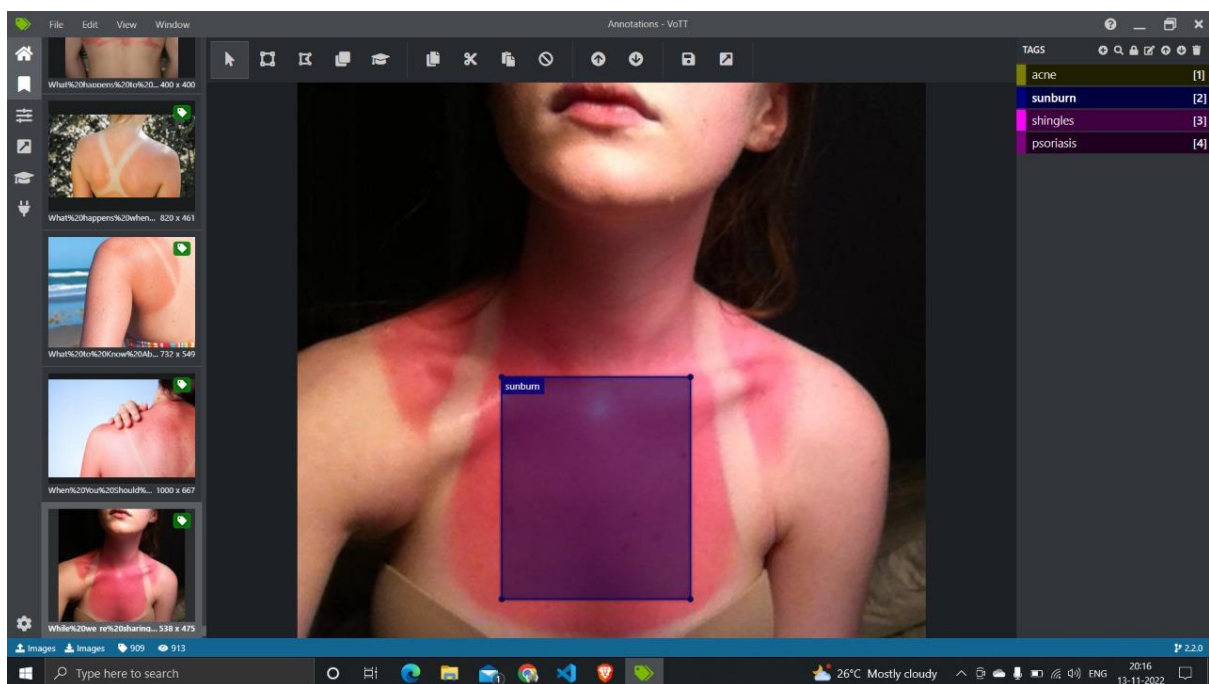
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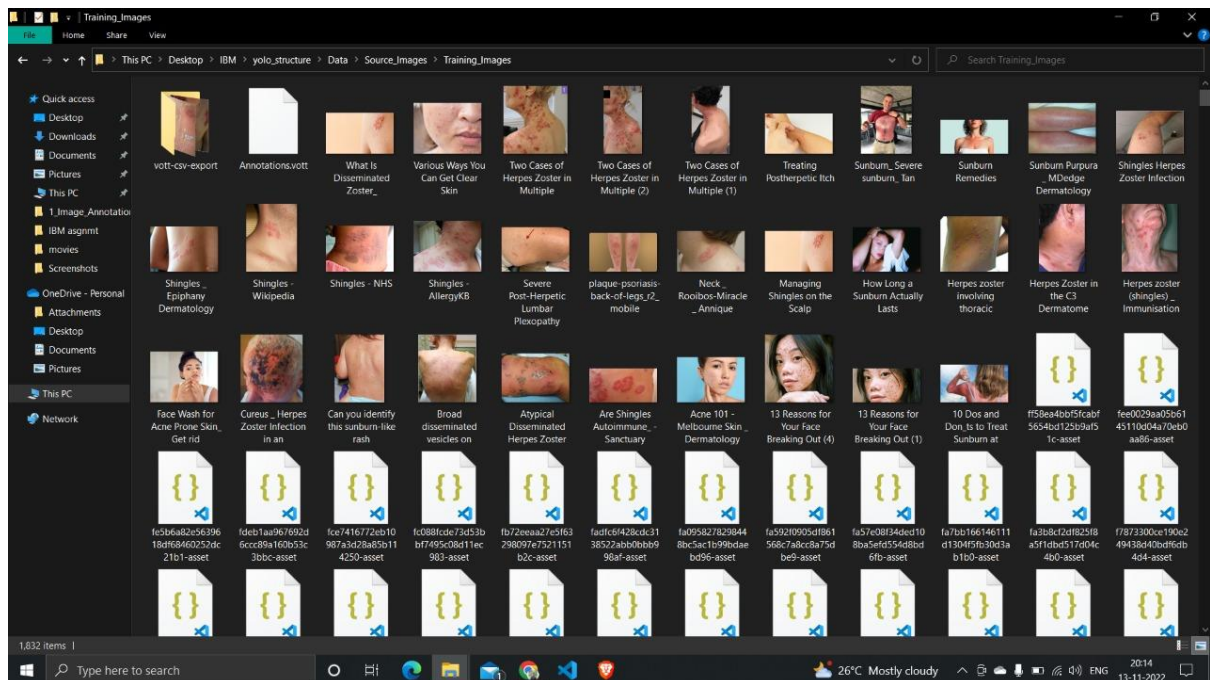
ANNOTATING IMAGES

We have created a project in VOTT to annotate images

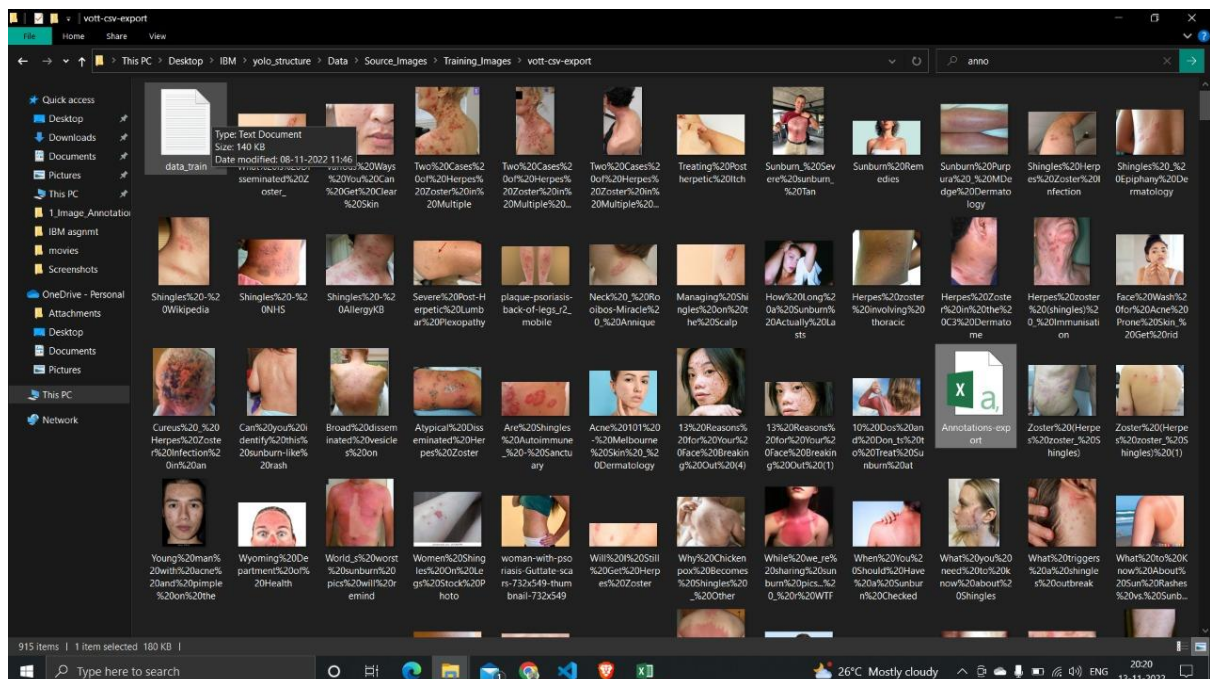


After labelling images we exported the Project.

A vott-csv-export folder is created in Training_images.



Within the vott-csv-export folder, we have Annotations-export (Excel file)



Excel file

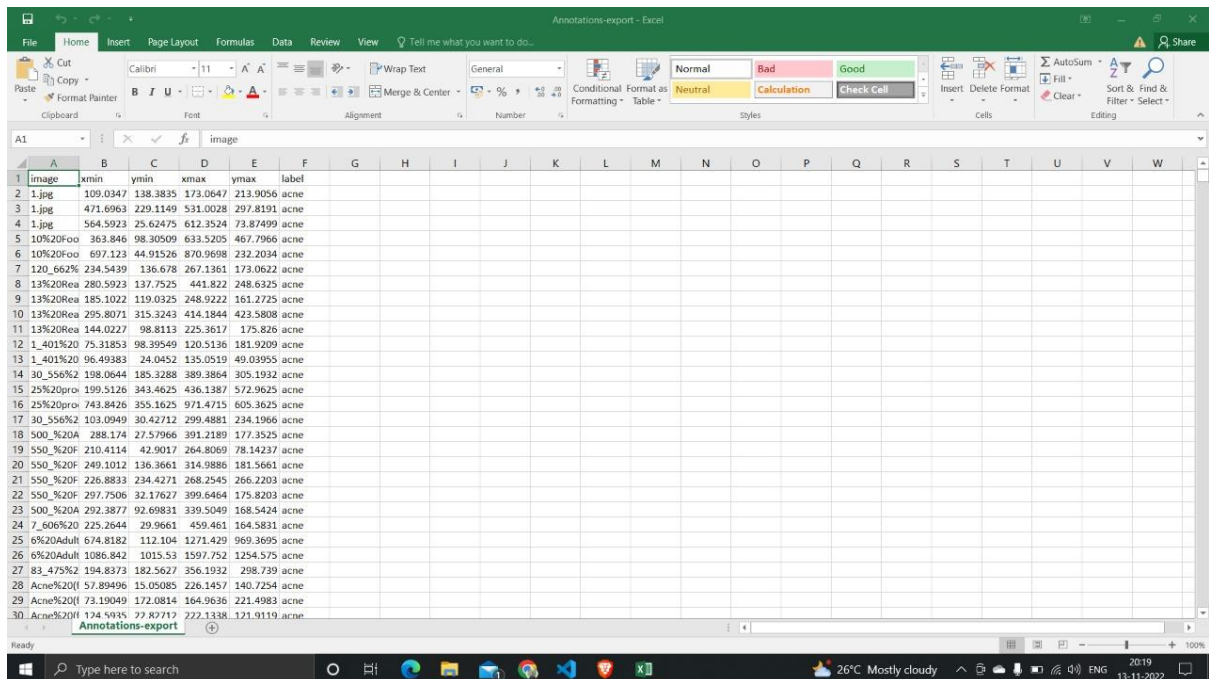
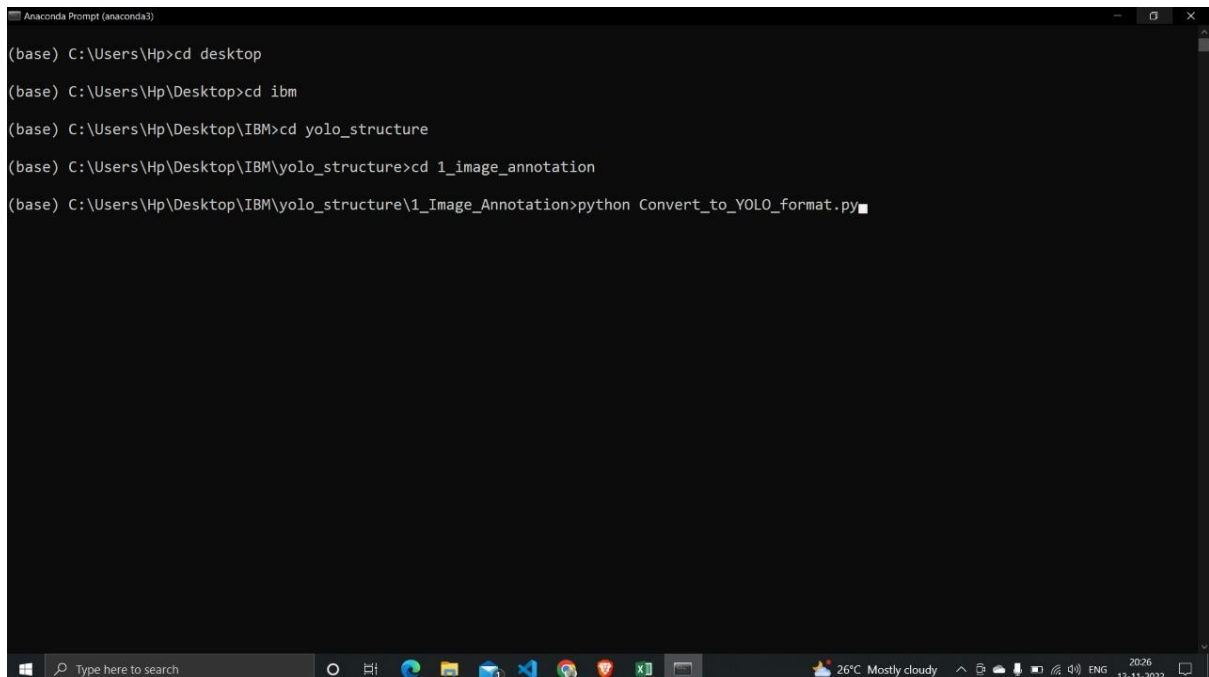


image	xmin	ymin	xmax	ymax	label
1.jpg	109.0347	138.3835	173.0647	213.9056	acne
1.jpg	471.6963	229.1149	531.0028	297.8191	acne
1.jpg	564.5923	25.62475	612.3524	73.87499	acne
10%20foo	363.846	98.30509	633.5205	467.7966	acne
10%20foo	697.123	44.91526	870.9698	232.2034	acne
120_662%	234.5439	136.678	267.1361	173.0622	acne
13%20Rea	280.5923	137.7525	441.822	248.6325	acne
13%20Rea	185.1022	119.0325	248.9222	161.2725	acne
13%20Rea	295.8071	315.3243	414.1844	423.5808	acne
13%20Rea	144.0227	98.8113	225.3617	175.826	acne
1_401%20	75.31853	98.39549	120.5136	181.9209	acne
1_401%20	96.49383	24.0452	135.0519	49.03955	acne
30_556%2	198.0644	185.3288	389.3864	305.1932	acne
25%20pro	199.5126	343.4625	436.1387	572.9625	acne
25%20pro	743.8426	355.1625	971.4715	605.3625	acne
30_556%2	103.0949	30.42712	299.4881	234.1966	acne
500_%20A	288.174	27.57966	391.2189	177.3525	acne
550_%20F	210.4114	42.9017	264.8069	78.14237	acne
550_%20F	249.1012	136.3661	314.9886	181.5661	acne
550_%20F	226.8833	234.4271	268.2545	266.2203	acne
550_%20F	297.7506	32.17627	399.6464	175.8203	acne
500_%20A	292.3877	92.69831	339.5049	168.5424	acne
7_606%20	225.2644	29.9661	459.461	164.5831	acne
6%20Adult	674.8182	112.104	1271.429	969.3695	acne
6%20Adult	1086.842	1015.53	1597.752	1254.575	acne
83_475%2	194.8373	182.5627	356.1932	298.739	acne
Acne%20I	57.89496	15.05085	226.1457	140.7254	acne
Acne%20I	73.19049	172.0814	164.9636	221.4983	acne
Acne%20I	134.5945	77.87717	222.1338	121.9119	acne

Converting VoTT csv format to the YOLOv3 format:

To do so we run a command line in Anaconda Prompt Navigator.



```
(base) C:\Users\Hp>cd desktop
(base) C:\Users\Hp\Desktop>cd ibm
(base) C:\Users\Hp\Desktop\IBM>cd yolo_structure
(base) C:\Users\Hp\Desktop\IBM\yolo_structure>cd 1_image_annotation
(base) C:\Users\Hp\Desktop\IBM\yolo_structure\1_Image_Annotation>python Convert_to_YOLO_format.py
```

The script generated two output files:

1. [data_class] text located in the ['yolo_structure/data/Model Weights'] folder.
2. [data_train] text located in the ['yolo_structure/Data/Source_Images/Training_Images/vott-csv-export'] folder.

