Create_samples.py :-

In main function first 2 folders are created for training set and test set. After boundary is fixed for training and test samples. 80% for training and 20% for testing. train and test dataset are created using "create_sample()" function.

create_sample (source_dir, fname_1, fname_2, target_dir) :-

In this function "is_image_file()" function is used for checking the file contain image or not. After this "cut_pics()" function is used to cut the all images in same size. This function return the cropped image. After this save_file() function is called for save the image in the target directory.

save_file (f, fname, f_root) :-

f => image fname => image name

f_root => target directory.

First the wind speed is extracted from the fname. According to this wind level oversample is calculated using "oversample_num(wind)" function. The oversample function will return 0 → 10 based on the wind speed. The file name is modified. The classification of wind-speed is added in the file name. After the image file is saved in target directory.

oversample_num(wind) :-

If the wind level is less than 60 it will return 1. If the wind level is less than 80 it will return 1 or 2. If the wind level is less than 100 it will return 1 or 2 or 3. otherwise it will return 1 to 10 randomly.