Before running the program, you need to copy the relevant directories "model\_tumor-breast", "model\_Pathology-breast", "model\_Diseasel-breast" and related files to the running program directory and copy the files in the "Model\_optimization\_test\_dataset" directory to the corresponding directory, Copy the files in the "imagenet\_ pretrained\_ model" directory to the corresponding directory. External\_test\_dataset includes 3 external test datasets and corresponding images, which can be tested separately.

ERTrain is the library that needs to be referenced for image training, ERPrediction is the library that needs to be referenced for image diagnosis, ImageTrain is the image training program, and ImageZdTest is the image diagnosis test program. If continuous diagnosis is required, ImageZdTest needs to be converted into an exe executable file, which is started and run by ImageTrain. In the KerasModels directory are the inception\_resnet\_v2 algorithm and related files, label400 is the classification label of the test image, and there is a patient information table in the OITDS file: patientdatatable, which includes the field patientID pointing to the path of the patient image. The field Test\_status value is 1 and the field Image\_diagnosis\_status value is 0, the test will be performed, after the test is completed, the value of Test\_status is 0, and the value of Image\_diagnosis\_status is 3.