Predicting in variue ductal larcinoma

IDC - Invaline ductal larcinomo with 80% of lass - one of the most common types by bruest cancer of her has IDC, another type of brust cancer or is healthy Aup learning could be a great help to automatically dute ct and locates turnour tissue Ills and to speed up the process.

Collecting information:

In paper tilsue solicus of 280 patients are und which have IPEC [about 265 and used for training and 15 fou validation].

Evaluation Metric: F1_score and balanced accuracy

Ouve goal: given a patients and a patch of fissur Edice pudice wheater it contains IDC or not.

Possibilities > healthy tissues

> IDC

-> Any other subtype of brest cancer.

Malny un home used libraries such as numby, pandes, matplotlib > visualization and torche for CNN.

enample of one patient having It number 18616, then the dende the dataset for training and lesting, we get the training dataset to torce vision models—who have used pyfords for smage dataset and we took for augmentations. Then transfer leaving with a fruit rained CNN So this helps as to entrart feature from previous layers and improve the upcoming layers. A common loss for this promblem is - binary viors entropy for this promblem is - binary viors entropy

Selection of evaluation metric is fi-some and punision and rucall. The mode many trials for dutaset starting with random state: 0 test size = 0.3 with 69.83%, then modified test size = 1 and got accuracy 89.39% and then changed random state = 42 and fest size to 0.05 to get an accuracy for 94.9%.

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