



1. Train ViT on **OCT 2017**
(Kermany dataset)

Add a layer with two neuron
at the end of model

2. Fine-Tune on **Data 2** to separate **non-dme**
form **Others** subjects

Omit the classifier head

3. train in siamese network
with triple loss (on **Data 3**) to
find best embeddings for
Normal and **Dme** subjects

Yes

That subject is
Non-Dme !!!

4. For each subject in **Data 1**, average the B-scan
probability distributions .
Does non-dme have higher probability ?

No

Others
(NORMAL + DME)

5. Convert all b-scans in Others
set with trained snn network
to embedding vector.

6. Divide these vectors into two
clusters by using K-means.

7. Check which cluster contain most of Normal (Or
Dme) b-scans and give the Normal (Or DME) label
to that cluster.

9. For each re-mained subject , is 50% of his
b-scans in Normal cluster ?

No

That subject is
DME !!!

Yes

That subject is
Normal !!!

For train-set do steps 1-9 First and
then for test-set
do 4-9 .