R2Net Based architecture I used with attention block . It is also a Unet Based Architecture.

Image Size was 512 \* 512

**The Maximum IOU Score for Validation data was 0.6613** IOU score.

I have used **bce\_jaccard\_loss** for training of the model.

Learning rate was set to 8.00E-05

Channels size first raise from 3 to 64 then to 128 , 256 to 512 , 1024 for the Encoder Part of Unet

Then decreased from 1024 to 512 , 256 , 128 , 64 and to 1 channel for the Decoder part of the UNET.

Instead of using One or two Convolutions in a Convd Block which we do in simple Unet Architecture , we have used Residual Connection which happened Recurrently thus we call it Recurrent Residual Unet Architecture.

We have used Attention block :

To reduce the number of Channels and thus we can have low number of Trainable Parameters.

Also to give attention to the some aspects of the Features and giving less importance to Unimportant Features in our Features which we got from CNN Layers .