

# Model Weights for TASK B

Model: "SiameseEnsemble"

Layer (type)	Output Shape	Param #	Connected to
input_layer_2 (InputLayer)	(None, 160, 160, 1)	0	-
input_layer_3 (InputLayer)	(None, 160, 160, 1)	0	-
EnsembleEmbedding (Functional)	(None, 256)	56,309,888	input_layer_2[0]... input_layer_3[0]...
lambda (Lambda)	(None, 256)	0	EnsembleEmbeddin... EnsembleEmbeddin...
dense_2 (Dense)	(None, 1)	257	lambda[0][0]

Total params: 121,755,013 (464.46 MB)

Trainable params: 32,722,433 (124.83 MB)

Non-trainable params: 23,587,712 (89.98 MB)

Optimizer params: 65,444,868 (249.65 MB)

Model Layer-wise Parameters:

input_layer_2	(InputLayer	) → 0
input_layer_3	(InputLayer	) → 0
EnsembleEmbedding	(Functional	) → 56,309,888
lambda	(Lambda	) → 0
dense_2	(Dense	) → 257

Total Model Parameters: 56,310,145

Estimated RAM size of model weights: 214.81 MB

Saved model file size: 464.87 MB

	total	used	free	shared	buff/cache	available
Mem:	12Gi	4.0Gi	3.1Gi	144Mi	5.5Gi	8.3Gi
Swap:	0B	0B	0B			

Fri Jul 4 13:52:28 2025

NVIDIA-SMI 550.54.15				Driver Version: 550.54.15		CUDA Version: 12.4	
GPU	Name		Persistence-M	Bus-Id	Disp.A	Volatile Uncorr. ECC	
Fan	Temp	Perf	Pwr:Usage/Cap		Memory-Usage	GPU-Util	Compute M.
							MIG M.
0	Tesla T4		Off	00000000:00:04.0	Off		0
N/A	68C	P0	29W / 70W	4218MiB / 15360MiB		0%	Default
							N/A

Processes:							
GPU	GI	CI	PID	Type	Process name	GPU Memory	
	ID	ID				Usage	