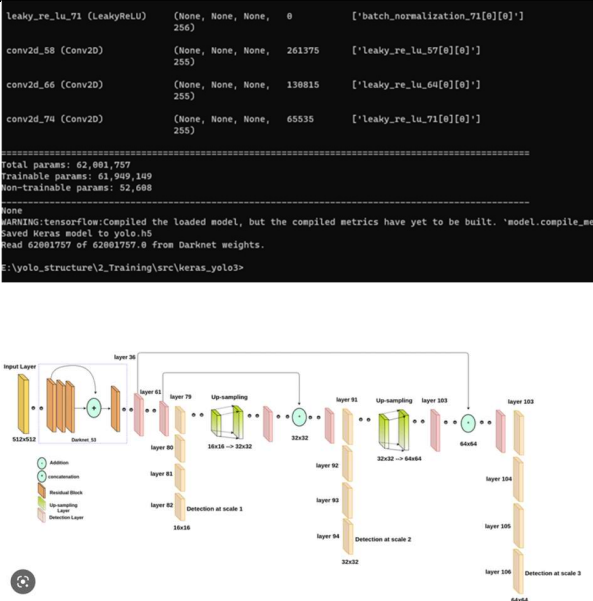
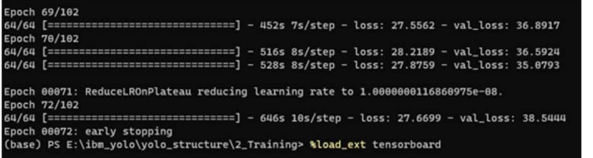




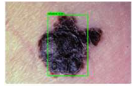
Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID53159
Project Name	Project - AI-based localization and classification of skin disease with erythema
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Model Summary	<p>The model is YOLO v3 pretrained and gain trained on our custom dataset of skin diseases.</p> <p>It is a real-time object detection algorithm that identifies specific objects in videos, live feeds, or images. And it uses features learned by a deep convolutional neural network to detect an object.</p>	 <pre> leaky_re_lu_71 (LeakyReLU) (None, None, None, 0) ['batch_normalization_71[0][0]'] conv2d_58 (Conv2D) (None, None, None, 261375) ['leaky_re_lu_57[0][0]'] conv2d_66 (Conv2D) (None, None, None, 130815) ['leaky_re_lu_64[0][0]'] conv2d_74 (Conv2D) (None, None, None, 65535) ['leaky_re_lu_71[0][0]'] Total params: 62,001,757 Trainable params: 61,809,149 Non-trainable params: 52,608 WARNING:tensorflow:Compiled the loaded model, but the compiled metrics have yet to be built. 'model.compile_me Saved Keras model to yolo.h5 Read 62081757 of 62081757.0 from Darknet weights. E:\yolo_structure\2_Training\src\keras_yolo3> </pre>
2.	Loss	<p>Training Loss – 27.69</p> <p>Validation Loss – 38.5</p> <p>(Early stopped)</p>	 <pre> Epoch 68/102 64/64 [=====] - 452s 7s/step - loss: 27.5562 - val_loss: 36.8917 Epoch 70/102 64/64 [=====] - 516s 8s/step - loss: 28.2189 - val_loss: 36.5924 64/64 [=====] - 528s 8s/step - loss: 27.8759 - val_loss: 35.0793 Epoch 00071: ReduceLRonPlateau reducing learning rate to 1.0000000116860975e-08. Epoch 72/102 64/64 [=====] - 646s 10s/step - loss: 27.6699 - val_loss: 38.5444 Epoch 00072: early stopping (base) PS E:\libm_yolo\yolo_structure\2_Training> %load_ext tensorboard </pre>
3.	Confidence Score (Only Yolo Projects)	<p>Class Detected – Rosacea, Psoriasis & Melanoma</p> <p>Confidence Score –</p>	

		<p>61.5% for first Image (Rosacea),</p> <p>87.6% for Second (Psoriasis)</p> <p>83.09% for third (Melanoma)</p>	<div><pre>(416, 416, 3) Found 1 boxes for img Rosacea 0.62 (160, 124) (683, 399) Time spent: 1.306sec -22.253526576474542 -12.790271922643626 Processed 1 images in 1.5sec - 0.7FPS</pre></div> <div><pre>(416, 416, 3) Found 1 boxes for img psoriasis 0.88 (27, 109) (318, 308) Time spent: 1.546sec 77.30558211247515 -105.28502202044177 Processed 1 images in 1.6sec - 0.6FPS</pre></div> <div><pre>(416, 416, 3) Found 1 boxes for img melanoma 0.83 (387, 113) (756, 589) Time spent: 2.051sec -9.026176998835851 154.7110427447168 Processed 1 images in 2.1sec - 0.5FPS</pre></div>	<div><p>Result: Rosacea Confidence: 61.54%</p></div> <div><p>Result: Psoriasis Confidence: 87.6%</p></div> <div><p>Result: Melanoma Confidence: 83.09%</p></div>
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