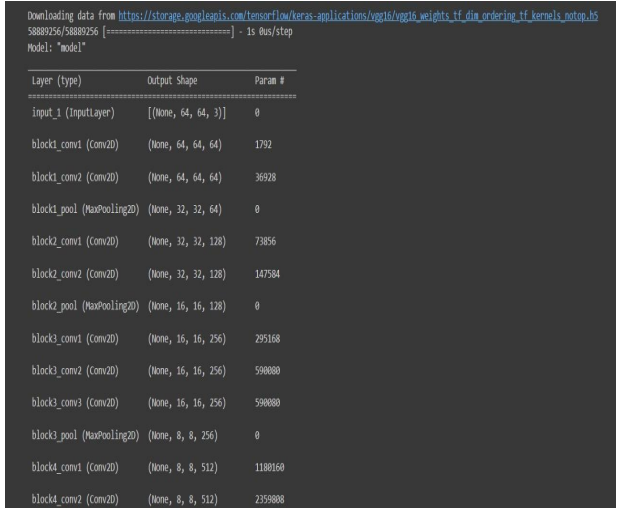
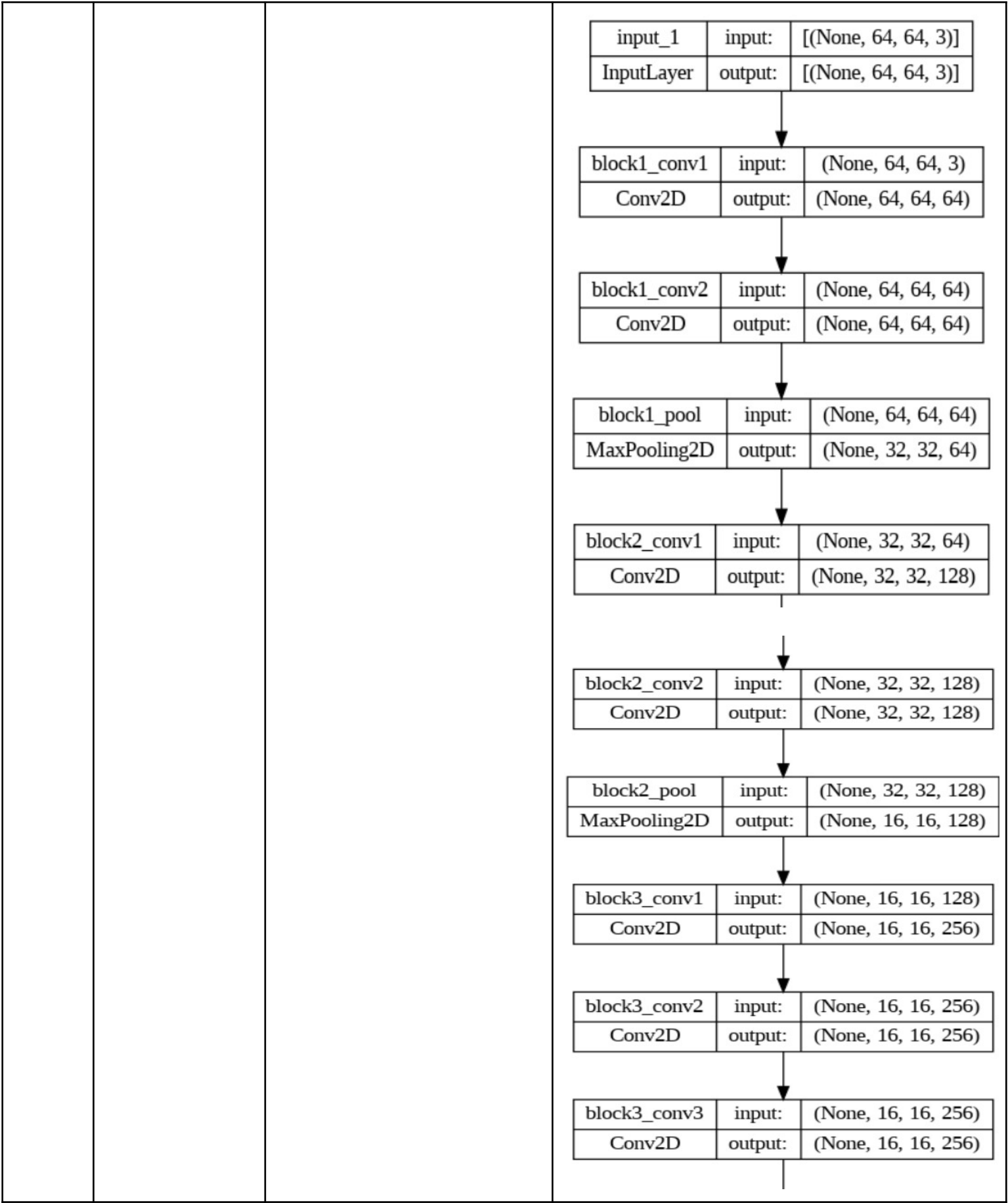
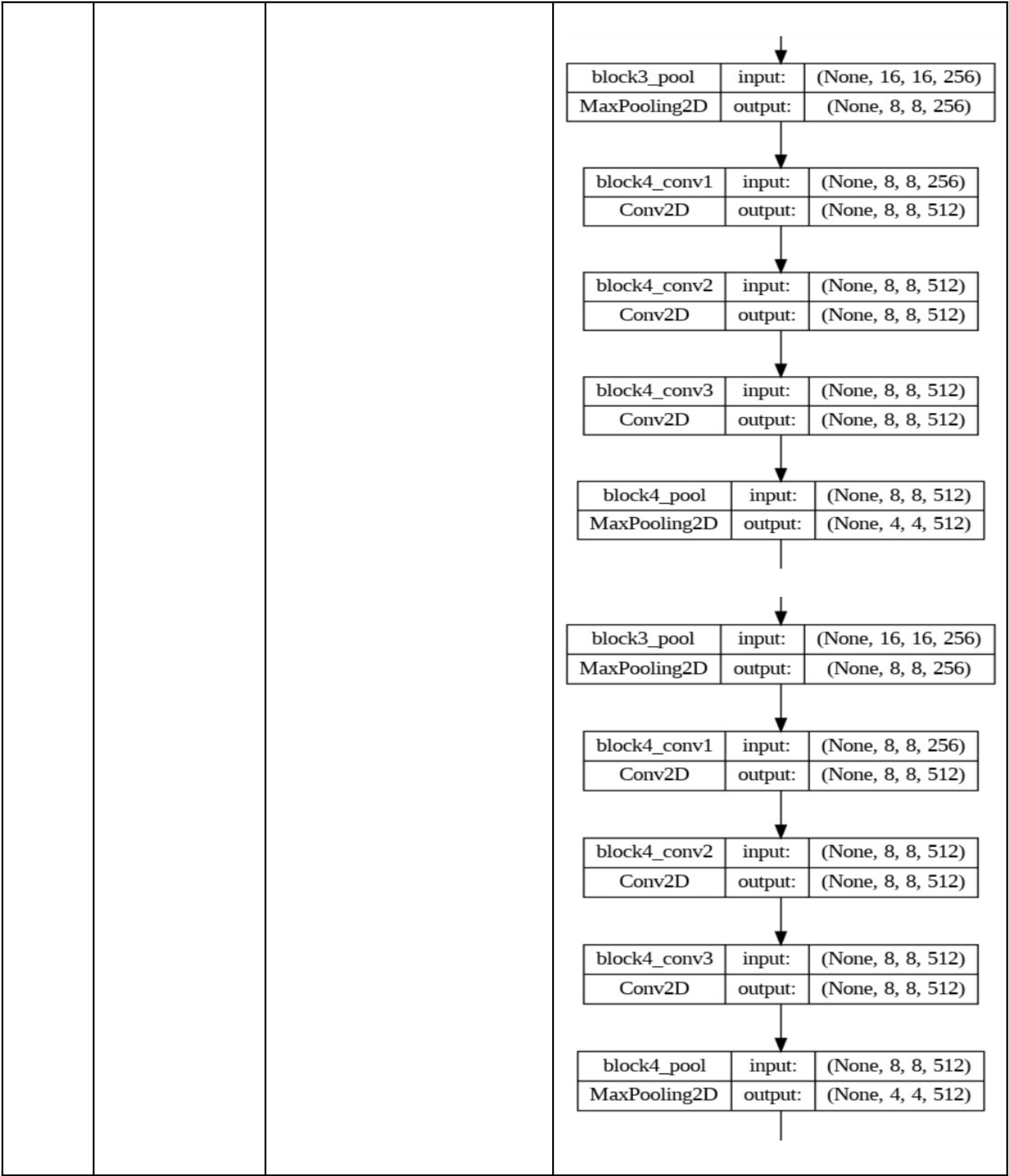


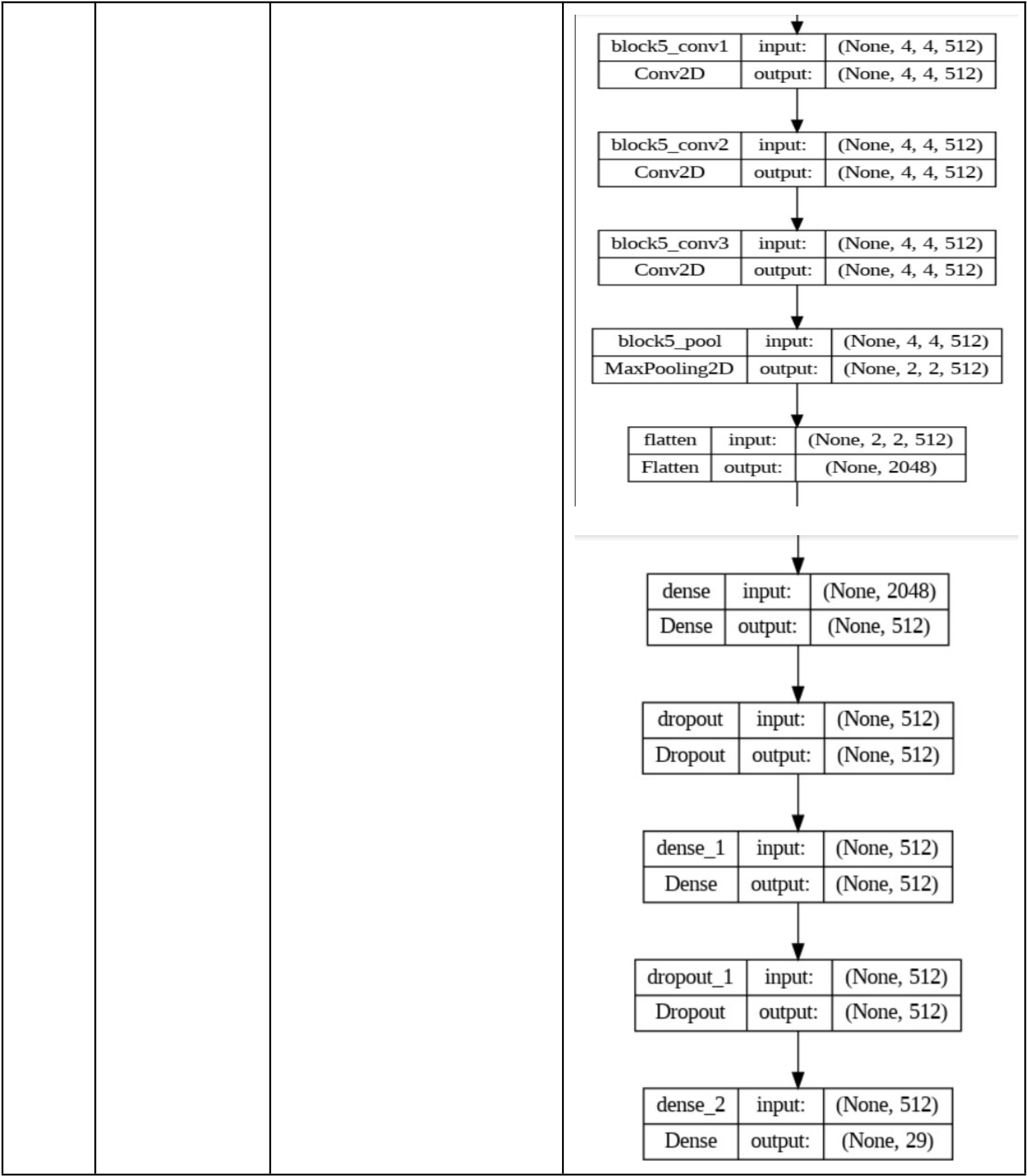
Project Development Phase Model Performance Test

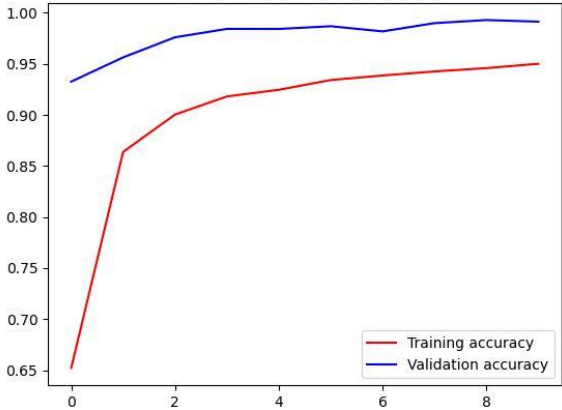
Date	9 November 2023
Team ID	Team-592961
Project Name	ASL- Alphabet Image Recognition
Maximum Marks	10 Marks

S.No	Parameter	Values	Screenshot
1.	Model Summary	Total Params - 16041309 Trainable params - 1326621 Non-trainable params - 14714688	 <pre> Download data from https://storage.googleapis.com/tensorflow/keras-applications/vgg16/vgg16_weights_tf_dim_ordering_tf_kernels_notop.h5 58889256/58889256 [=====] - 15.0us/step Model: "model" ----- Layer (type) Output shape Param # ----- input_1 (InputLayer) [(None, 64, 64, 3)] 0 block1_conv1 (Conv2D) (None, 64, 64, 64) 1792 block1_conv2 (Conv2D) (None, 64, 64, 64) 36928 block1_pool (MaxPooling2D) (None, 32, 32, 64) 0 block2_conv1 (Conv2D) (None, 32, 32, 128) 73856 block2_conv2 (Conv2D) (None, 32, 32, 128) 147584 block2_pool (MaxPooling2D) (None, 16, 16, 128) 0 block3_conv1 (Conv2D) (None, 16, 16, 256) 295168 block3_conv2 (Conv2D) (None, 16, 16, 256) 590880 block3_conv3 (Conv2D) (None, 16, 16, 256) 590880 block3_pool (MaxPooling2D) (None, 8, 8, 256) 0 block4_conv1 (Conv2D) (None, 8, 8, 512) 1180160 block4_conv2 (Conv2D) (None, 8, 8, 512) 2359808 block4_conv3 (Conv2D) (None, 8, 8, 512) 2359808 block4_pool (MaxPooling2D) (None, 4, 4, 512) 0 block5_conv1 (Conv2D) (None, 4, 4, 512) 2359808 block5_conv2 (Conv2D) (None, 4, 4, 512) 2359808 block5_conv3 (Conv2D) (None, 4, 4, 512) 2359808 block5_pool (MaxPooling2D) (None, 2, 2, 512) 0 flatten (Flatten) (None, 2048) 0 dense (Dense) (None, 512) 1049088 dropout (Dropout) (None, 512) 0 dense_1 (Dense) (None, 512) 262656 dropout_1 (Dropout) (None, 512) 0 dense_2 (Dense) (None, 29) 14877 ----- Total params: 16041309 (61.19 MB) Trainable params: 1326621 (5.06 MB) Non-trainable params: 14714688 (56.13 MB) </pre>







2.	Accuracy	<div>Training Accuracy - 99.37%</div> <div>Validation Accuracy - 99.12%</div>	<div><div>evaluate Test Accuracy: 99.00%</div><div>908/908 [=====] - 241s 265ms/step - loss: 0.0321 - accuracy: 0.9937</div><div>evaluate Train Accuracy: 99.37%</div><div>248/248 [=====] - 66s 266ms/step - loss: 0.0369 - accuracy: 0.9912</div><div>evaluate Validation Accuracy: 99.12%</div><div>204/204 [=====] - 54s 264ms/step</div></div> <div><div>Training and validation accuracy</div><table><caption>Training and Validation Accuracy Data</caption><tr><th>Epoch</th><th>Training Accuracy</th><th>Validation Accuracy</th></tr><tr><td>0</td><td>0.65</td><td>0.93</td></tr><tr><td>1</td><td>0.86</td><td>0.96</td></tr><tr><td>2</td><td>0.90</td><td>0.98</td></tr><tr><td>3</td><td>0.92</td><td>0.99</td></tr><tr><td>4</td><td>0.93</td><td>0.99</td></tr><tr><td>5</td><td>0.94</td><td>0.99</td></tr><tr><td>6</td><td>0.94</td><td>0.98</td></tr><tr><td>7</td><td>0.95</td><td>0.99</td></tr><tr><td>8</td><td>0.95</td><td>0.99</td></tr><tr><td>9</td><td>0.95</td><td>0.99</td></tr></table></div>	Epoch	Training Accuracy	Validation Accuracy	0	0.65	0.93	1	0.86	0.96	2	0.90	0.98	3	0.92	0.99	4	0.93	0.99	5	0.94	0.99	6	0.94	0.98	7	0.95	0.99	8	0.95	0.99	9	0.95	0.99
Epoch	Training Accuracy	Validation Accuracy																																		
0	0.65	0.93																																		
1	0.86	0.96																																		
2	0.90	0.98																																		
3	0.92	0.99																																		
4	0.93	0.99																																		
5	0.94	0.99																																		
6	0.94	0.98																																		
7	0.95	0.99																																		
8	0.95	0.99																																		
9	0.95	0.99																																		