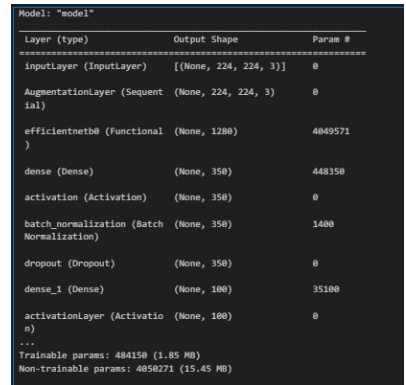
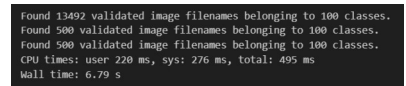


Project Development Phase Model Performance Test

Date	17 November 2023
Team ID	Team- 591817
Project Name	Transfer learning for identifying the sports
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>Model Name: Transfer learning for identifying the sports using Deep Learning.</p> <p>Description: Deep learning techniques are used to accurately classify sports patterns. It improves sports forecasting precision by transforming diverse meteorological data into actionable insights using neural network architecture.</p> <p>Architecture: Convolutional Neural Network (CNN)</p> <p>Layers: EfficientNetB0, Sequential, Dense, Flatten.</p> <p>Hyperparameters: batch-size = 10</p> <p>Training Data: 13492 images belonging to 100 sports classes</p>	 <pre> Model: "model" Layer (type) Output Shape Param # ----- InputLayer (InputLayer) [(None, 224, 224, 3)] 0 AugmentationLayer (Sequent (None, 224, 224, 3) 0 ial) efficientnetb0 (Functional (None, 1280) 4849571) dense (Dense) (None, 350) 448350 activation (Activation) (None, 350) 0 batch_normalization (Batch (None, 350) 1400 Normalization) dropout (Dropout) (None, 350) 0 dense_1 (Dense) (None, 100) 35100 activation_layer (Activatio (None, 100) 0 n) ... Trainable params: 484150 (1.85 MB) Non-trainable params: 4850271 (15.45 MB) </pre>  <pre> Found 13492 validated image filenames belonging to 100 classes. Found 500 validated image filenames belonging to 100 classes. Found 500 validated image filenames belonging to 100 classes. CPU times: user 220 ms, sys: 276 ms, total: 495 ms Wall time: 6.79 s </pre>

		<p>Pre-trained Model: EfficientNetB0</p> <p>Framework/Libraries: Tensorflow, Keras, Numpy, Pandas</p> <p>Loss Function: categorical cross-entropy</p> <p>Optimizer: Adam</p> <p>Metrics: Accuracy</p>	<pre>loss='categorical_crossentropy',</pre> <pre>optimizer=Adam(0.0001),</pre> <pre>metrics=['accuracy']</pre>
2.	Accuracy	<p>Training Accuracy – 99.41 or 0.9941</p> <p>Validation Accuracy – 96.80 or 0.9680</p>	<pre>accuracy: 0.9941</pre> <pre>val_accuracy: 0.9680</pre>