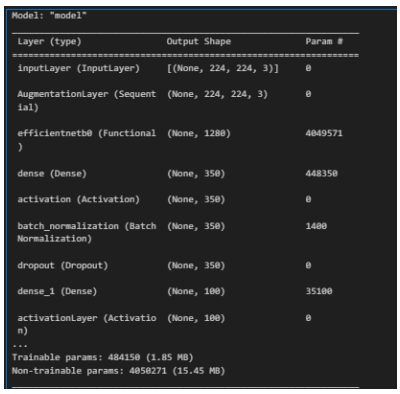
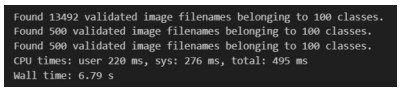
Project Development Phase
Model Performance Test

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	**Model Name:** Transfer learning for identifying the sports using Deep Learning. **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. **Architecture:** Convolutional Neural Network (CNN) **Layers:** EfficientNetB0, Sequential, Dense, Flatten. **Hyperparameters:** batch-size = 10 **Training Data:** 13492 images belonging to 100 sports classes	 

		Pre-trained Model: EfficientNetB0
		
		Framework/Libraries: Tensorflow, Keras, Numpy, Pandas
		
		Loss Function: categorical cross-entropy
		
		Optimizer: Adam
		
		Metrics: Accuracy
			`loss='categorical_crossentropy',`
			
			`optimizer=Adam(0.0001),`
			
			`metrics=['accuracy']`

2.	Accuracy	Training Accuracy – 99.41 or 0.9941
		
		Validation Accuracy – 96.80 or 0.9680
			`accuracy: 0.9941`
			
			`val_accuracy: 0.9680`