OUTPUT FOR DROWSINESS DETECTION

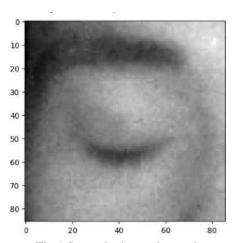


Fig.1 Setup the image in graph

Total images loaded: 945

Training data shape: (756, 224, 224, 3) Validation data shape: (189, 224, 224, 3)

17225924/17225924 ————————————————————————————————————	Os Ous/step
24/24 ————	181s 7s/step - accuracy: 0.8550
Epoch 2/10 24/24 ——————————————————————————————————	198s 7s/step - accuracy: 0.9867
Epoch 3/10 24/24 ——————————————————————————————————	200s 7s/step - accuracy: 0.9928
Epoch 4/10 24/24	163s 7s/step - accuracy: 0.9965
Epoch 5/10	
Epoch 6/10	198s 7s/step - accuracy: 0.9995
24/24 — Epoch 7/10	159s 7s/step - accuracy: 0.9856
24/24 — Epoch 8/10	198s 6s/step - accuracy: 1.0000
24/24 ————	160s 7s/step - accuracy: 0.9978
Epoch 9/10 24/24 —————	205s 7s/step - accuracy: 1.0000
Epoch 10/10 24/24 —————	198s 7s/step - accuracy: 1.0000

Totally 10 epoch has been taken and the accuracy has been obtained above the range of 0.85 to 1.0

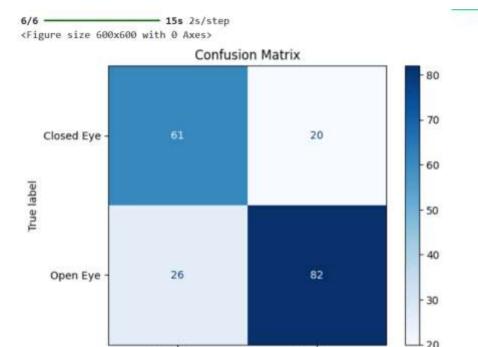


Fig.2 Confusion Matrix

Predicted label

Open Eye

- A confusion matrix plot showing true positives, false positives, true negatives, and false negatives.
- Model accuracy score.
- Detailed classification report (precision, recall, F1-score, and support).

Closed Eye

Classification Report:

	precision	recall	f1-score	support
Closed Eye Open Eye	0.70	0.75 0.76	0.73 0.78	81 108
accuracy macro avg	0.75	0.76	0.76 0.75	189 189
weighted avg	0.76	0.76	0.76	189

OUTPUT FOR DRUNK DETECTION

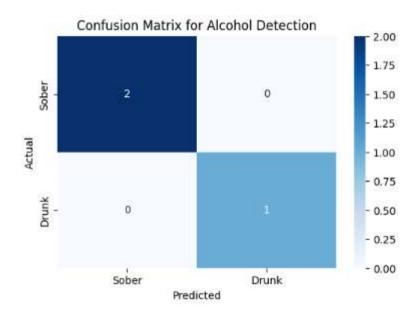


Fig.3 Confusion Matrix for alcohol detection

Accuracy: 1.00

Classification Report:

	precision	recall	f1-score	support
0 1	1.00	1.00	1.00	2
accuracy macro avg	1.00	1.00	1.00	3
weighted avg	1.00	1.00	1.00	3

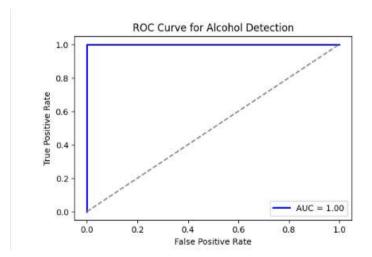


Fig.4 ROC Curve for Alcohol detection