t[]:		label	FaceRectX	FaceRectY	FaceRectWidth	FaceRectHeight	FaceScore	Pitch	Roll	Yaw	AUs1	•••	x_63	y_63	
	0	Angry	-0.31715	-0.29662	36.38660	47.85770	0.99359	-9.59011	12.72161	-28.42508	0.29705		51.34946	49.90415	4
	1	Angry	3.02009	-1.33738	42.36711	50.01836	0.95564	6.27818	1.67929	-0.37270	0.31780		57.55396	54.86165	5
	2	Angry	0.98461	-1.29084	35.94039	47.50459	0.73074	-64.88136	-61.70474	70.54467	0.77023		48.56225	47.52279	4
	3	Angry	5.36803	-0.93098	32.32775	44.01271	0.98712	-8.59568	-12.81338	0.20218	0.33113		45.59402	43.52846	3
	4	Angry	2.61129	-0.59984	42.42387	48.76449	0.98044	6.68759	7.24873	-4.51140	0.36227		47.19149	46.04761	4

5 rows × 165 columns



```
In [ ]: X = data.drop("label", axis=1)
y = data["label"]
X.head()
```

```
Out[ ]:
           FaceRectX FaceRectY FaceRectWidth FaceRectHeight FaceScore
                                                                         Pitch
                                                                                    Roll
                                                                                                    AUs1
                                                                                                            AUs2 ...
                                                                                             Yaw
                                                                                                                        x 63
                                                                                                                                 y_63
                                                                                12.72161 -28.42508 0.29705 0.11408 ... 51.34946 49.90415
             -0.31715
        0
                       -0.29662
                                    36.38660
                                                   47.85770
                                                              0.99359
                                                                       -9.59011
        1
             3.02009
                       -1.33738
                                    42.36711
                                                   50.01836
                                                              0.95564
                                                                       6.27818
                                                                                 1.67929
                                                                                          ... 48.56225 47.52279
        2
             0.98461
                      -1.29084
                                    35.94039
                                                   47.50459
                                                              0.73074
                                                                     -64.88136 -61.70474
                                                                                         70.54467 0.77023 0.41684
                                                                                          3
             5.36803
                       -0.93098
                                    32.32775
                                                   44.01271
                                                              0.98712
                                                                       -8.59568 -12.81338
        4
             2.61129
                      -0.59984
                                    42.42387
                                                   48.76449
                                                              0.98044
                                                                       6.68759
                                                                                 7.24873
                                                                                         -4.51140 0.36227 0.28799 ... 47.19149 46.04761
       5 rows × 164 columns
In [
     ]: y.head()
Out[]: 0
             Angry
        1
             Angry
        2
             Angry
        3
             Angry
             Angry
        Name: label, dtype: object
In [ ]: X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3, stratify=y, random_state=42)
        print(f"X train shape: {X train.shape}")
        print(f"X_test shape: {X_test.shape}")
        print(f"y_train shape: {y_train.shape}")
        print(f"y_test shape: {y_test.shape}")
      X_train shape: (122, 164)
      X test shape: (53, 164)
      y_train shape: (122,)
      y_test shape: (53,)
    model = LogisticRegression(solver='lbfgs', C=10.0, random state=42, multi class='multinomial').fit(X train,y train)
In [
     |: y pred = model.predict(X test)
In [ ]: print("Logistic Regression Classifier")
```

print(classification_report(y_test, y_pred))

print("Accuracy:", accuracy_score(y_test, y_pred))

Logistic Regr	ession Class	sifier		
	precision	recall	f1-score	support
Angry	0.00	0.00	0.00	7
Disgusted	0.67	0.57	0.62	7
Fear	0.14	0.12	0.13	8
Нарру	0.67	0.50	0.57	8
Neutral	0.12	0.12	0.12	8
Sad	0.25	0.14	0.18	7
Surprised	0.38	0.62	0.48	8
accuracy			0.30	53
macro avg	0.32	0.30	0.30	53
weighted avg	0.32	0.30	0.30	53

Accuracy: 0.3018867924528302