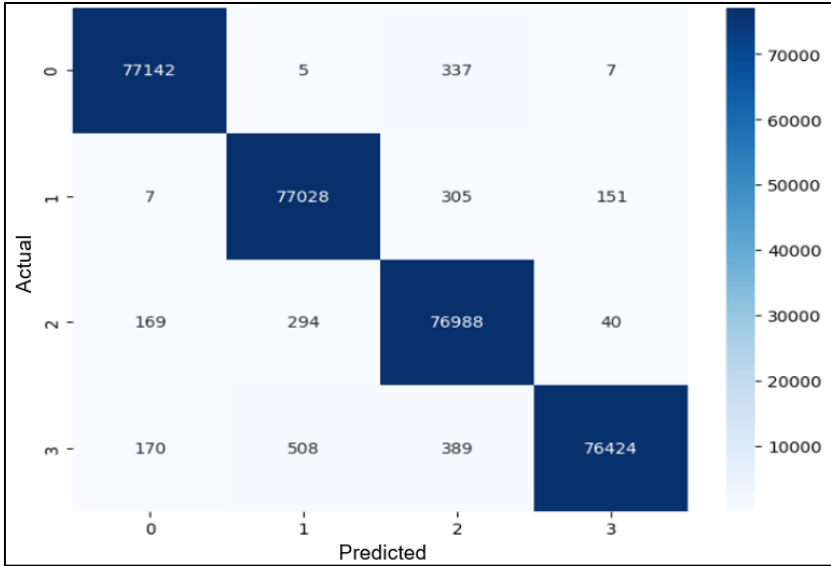


Figure 4: LSTM Model Confusion Matrix and Performance Metrics



CLASS	ACCURACY	PRECISION	SPECIFICITY	RECALL (SENSITIVITY)	F1-SCORE	TP	FN	FP	TN	SAMPLES
0	0.9955	0.9955	0.9985	0.9955	0.9955	77,142	349	346	232,227	77,491
1	0.9896	0.9896	0.9981	0.9940	0.9918	77,028	563	807	231,666	77,491

2	0.9867	0.9867	0.9983	0.9935	0.9901	76,988	503	1,031	231,542	77,491
3	0.9974	0.9974	0.9985	0.9974	0.9974	76,424	1,067	198	232,375	77,491
GLOBAL	0.9935	0.9925	0.9726	0.9924	0.9925	Global				309,964
MACRO-AVERAGE	0.9923	0.9923	0.9983	0.9951	0.9937					
WEIGHTED-AVERAGE	0.9937	0.9937	0.9984	0.9936	0.9937	307,582	2,382	2,382	83,936	

Source: Author’s own elaboration