Model Validation Results

Metric	Value	Interpretation
% Correctness	86.86%	The model correctly
		predicted nearly 87% of the
		settlement changes.
Kappa (Overall)	0.698	Substantial agreement
		between observed and
		predicted growth (Landis &
		Koch scale).
Kappa (Histogram)	0.985	Excellent agreement in
		terms of quantity of
		predicted changes.
Kappa (Location)	0.709	Good agreement in terms of
		spatial allocation of growth.

The model achieved high predictive accuracy (86.86%) with strong Kappa statistics, particularly in quantity agreement (0.985) and location agreement (0.709). These results suggest the ANN-based simulation is reliable for forecasting settlement growth in Durban.