

Simulation Analysis Results

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Time	I_LK	VHigh	Vlow	VLK
0.000000	0.497729	0.000077	0.000000	0.500001
0.000005	0.497738	0.000077	0.018167	0.500756
0.000010	0.497758	0.000077	0.036276	0.501509
0.000015	0.497788	0.000077	0.054353	0.502260
0.000020	0.497829	0.000077	0.072389	0.503009

Statistics of Filtered Data

	Time	I_LK	VHigh	Vlow	VLK
count	400.000000	400.000000	400.000000	400.000000	400.000000
mean	0.006998	0.501450	0.028634	7.515296	0.496700
std	0.000578	0.282367	0.003058	0.209851	0.309936
min	0.006000	0.015010	0.023220	6.931500	0.167117
25%	0.006499	0.254926	0.025727	7.367886	0.186799
50%	0.006998	0.501030	0.028683	7.558694	0.502576
75%	0.007496	0.748246	0.031346	7.648890	0.806880
max	0.007995	0.983349	0.034242	7.810822	0.824580

Preprocessing Results

Mean of Vlow: 6.014398864457081

Standard deviation of Vlow: 0.5885596907119182

Coefficient of variation of Vlow: 0.0978584400496104

Vlow is highly separable.

Simulation Analysis Results

Interquartile Range (IQR) of Vlow: 0.539257554651865

Skewness of Vlow: 0.7929962200966385

Vlow is moderately separable.

Normalized Data - Statistics of Filtered Data

	Time	I_LK	VHigh	Vlow	VLK
count	400.000000	400.000000	400.000000	400.000000	400.000000
mean	0.006998	0.501450	0.028634	0.935750	0.496700
std	0.000578	0.282367	0.003058	0.026129	0.309936
min	0.006000	0.015010	0.023220	0.863060	0.167117
25%	0.006499	0.254926	0.025727	0.917396	0.186799
50%	0.006998	0.501030	0.028683	0.941154	0.502576
75%	0.007496	0.748246	0.031346	0.952384	0.806880
max	0.007995	0.983349	0.034242	0.972547	0.824580

Quantitative Separability Analysis of Normalized Data

Mean of Vlow: 0.748869151313798

Standard deviation of Vlow: 0.07328316694884393

Coefficient of variation of Vlow: 0.0978584400496104

Vlow is highly separable.

Linear Regression Results

Mean Squared Error (MSE): 0.10163277151676858

Coefficient of Determination (R^2): 0.7056485103627527