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Reassess The Model

Number of metrics: 11 | Number of models: 11

Models Performance Matrix

	PR-AUC	Best F-1	VUS	MutualInformation	CDI	MAE	MSE	SMAPE	MAPE	LIKELIHOOD	CENTRALITY_4	SYNTHETIC_F1_spikes	SYNTHETIC_PR-AUC_spikes	SYNTHETIC_VUS_spikes
LOF_1	0.001501	0.005988	0.648489	0.015897	192.757239	0.121795	0.034632	0.135285	0.158110	0.287873	0.00	0.639995	0.546587	0.800443
LOF_2	0.001501	0.005988	0.648489	0.015897	192.757239	0.121795	0.034632	0.135285	0.158110	0.287873	0.00	0.639995	0.546587	0.800443
LOF_3	0.001501	0.005988	0.648489	0.015897	192.757239	0.121795	0.034632	0.135285	0.158110	0.287873	0.00	0.639995	0.546587	0.800443
LOF_4	0.001501	0.005988	0.648489	0.015897	192.757239	0.121795	0.034632	0.135285	0.158110	0.287873	0.00	0.639995	0.546587	0.800443
NN_1	0.004673	0.018518	0.901807	0.005016	inf	0.108139	0.037032	0.182598	0.223923	0.331692	39150.50	0.140717	0.063535	0.565022
NN_2	0.004673	0.018518	0.901807	0.005016	inf	0.121380	0.030473	0.180823	0.251066	0.308982	37382.50	0.159662	0.076687	0.638202
NN_3	0.004673	0.018518	0.901807	0.005016	inf	0.141282	0.035593	0.202616	0.285976	0.301430	48083.50	0.160917	0.078107	0.638038
RNN_1	0.000000	0.999985	0.906304	0.015897	73.201977	0.116266	0.029890	0.172313	0.248871	0.311780	59440.25	0.495044	0.386364	0.821050
RNN_2	0.023809	0.090908	0.775004	0.015897	78.983946	0.188691	0.063487	0.282766	0.348451	0.294624	59428.25	0.372409	0.273732	0.763308
RNN_3	0.055555	0.199998	0.841900	0.015897	90.892692	0.153285	0.045205	0.216162	0.316757	0.304498	54991.25	0.439020	0.351686	0.816833
RNN_4	0.099999	0.333329	0.890740	0.015897	89.951630	0.129816	0.038389	0.198144	0.268587	0.313672	56878.75	0.447995	0.326402	0.798043

Models Rank Matrix (f1)

	rank
LOF_1	0.999985
LOF_2	0.333329
LOF_3	0.199998
LOF_4	0.090908
NN_1	0.018518
NN_2	0.018518
NN_3	0.018518
RNN_1	0.005988
RNN_2	0.005988
RNN_3	0.005988
RNN_4	0.005988

average rank values

	rank
LOF_1	1
LOF_2	4
LOF_3	2
LOF_4	3
NN_1	5
NN_2	6
NN_3	9
RNN_1	11
RNN_2	7
RNN_3	10
RNN_4	8

markov_aggregated_rank

	rank
LOF_1	0.018518
LOF_2	0.333329
LOF_3	0.005988
LOF_4	0.005988
NN_1	0.005988
NN_2	0.005988
NN_3	0.199998
RNN_1	0.999985
RNN_2	0.018518
RNN_3	0.090908

RNN_4	0.018518
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copeland_rank

	rank
LOF_1	0.005988
LOF_2	0.005988
LOF_3	0.005988
LOF_4	0.090908
NN_1	0.005988
NN_2	0.018518
NN_3	0.018518
RNN_1	0.333329
RNN_2	0.199998
RNN_3	0.999985
RNN_4	0.018518

spearman's_footrule

	rank
LOF_1	0.005988
LOF_2	0.005988
LOF_3	0.005988
LOF_4	0.005988
NN_1	0.018518
NN_2	0.018518
NN_3	0.090908
RNN_1	0.333329
RNN_2	0.018518
RNN_3	0.199998
RNN_4	0.999985

Models Borda Rank from F1 Matrix

	rank
LOF_1	0.005988
LOF_2	0.018518
LOF_3	0.005988
LOF_4	0.005988
NN_1	0.005988
NN_2	0.018518
NN_3	0.090908
RNN_1	0.333329
RNN_2	0.018518
RNN_3	0.199998
RNN_4	0.999985

Models Trimmed Borda Rank Matrix

	rank
LOF_1	0.005988
LOF_2	0.005988
LOF_3	0.005988
LOF_4	0.005988
NN_1	0.018518
NN_2	0.018518
NN_3	0.999985
RNN_1	0.333329
RNN_2	0.018518
RNN_3	0.199998
RNN_4	0.090908

Models Partial Borda Rank Matrix

	rank
LOF_1	0.005988
LOF_2	0.005988
LOF_3	0.005988
LOF_4	0.005988
NN_1	0.018518
NN_2	0.018518
NN_3	0.999985
RNN_1	0.018518
RNN_2	0.090908
RNN_3	0.333329
RNN_4	0.199998

Models Trimmed Partial Borda Rank Matrix

	rank
LOF_1	0.005988
LOF_2	0.005988
LOF_3	0.005988
LOF_4	0.005988
NN_1	0.018518
NN_2	0.018518
NN_3	0.018518
RNN_1	0.090908
RNN_2	0.199998
RNN_3	0.333329
RNN_4	0.999985

Models Borda Trimmed Rank Matrix

	rank
LOF_1	0.005988
LOF_2	0.005988
LOF_3	0.005988
LOF_4	0.005988
NN_1	0.018518
NN_2	0.999985
NN_3	0.018518
RNN_1	0.333329
RNN_2	0.018518
RNN_3	0.199998
RNN_4	0.090908

EMPIRICAL INFLUENCE AND ROBUST RANK AGGREGATION

	cluster
0	1
1	0
2	1
3	1
4	1
5	1
6	0
7	1
8	1

Most reliable cluster idx: 1,Largest 1

Statistics

Rank by PR-AUC : ['RNN_4','RNN_3','RNN_2','NN_1','NN_2','NN_3','LOF_1','LOF_2','LOF_3','LOF_4','RNN_1']

Rank by F1 : ['RNN_1','RNN_4','RNN_3','RNN_2','NN_1','NN_2','NN_3','LOF_1','LOF_2','LOF_3','LOF_4']

Kemeny Predicted rank : ['LOF_1', 'LOF_2', 'LOF_3', 'LOF_4', 'NN_1', 'NN_2', 'NN_3', 'RNN_4', 'RNN_1', 'RNN_3', 'RNN_2']

Max PR-AUC: 0.09999880001239858 is achieved by RNN_4

Max F-1: 0.9999850001249884 is achieved by RNN_1

Our chosen model is : LOF_1 which has PR-AUC (using Kemeny)= 0.0015014864415469464 and best F-1= 0.005987963892577823

(Normalized Discounted Cumulative Gain) NDCG of predicted ranks with PR-AUC= 0.6617847002940933 and best F-1= 0.9873174930835157