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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	0.072197	0.322946	0.560347	0.09165	34.490237	0.023811	0.001808	0.037547	0.039031	0.323121	0.00	0.798481	0.907247	0.978624
LOF_2	0.072197	0.322946	0.560347	0.09165	34.490237	0.023811	0.001808	0.037547	0.039031	0.323121	0.00	0.798481	0.907247	0.978624
LOF_3	0.072197	0.322946	0.560347	0.09165	34.490237	0.023811	0.001808	0.037547	0.039031	0.323121	0.00	0.798481	0.907247	0.978624
LOF_4	0.072197	0.322946	0.560347	0.09165	34.490237	0.023811	0.001808	0.037547	0.039031	0.323121	0.00	0.798481	0.907247	0.978624
NN_1	0.014420	0.079863	0.726377	0.06790	inf	0.064138	0.008709	0.161291	0.174550	0.310358	764082.25	0.640376	0.485298	0.960652
NN_2	0.017629	0.096246	0.782077	0.06790	inf	0.057588	0.007026	0.139666	0.157252	0.309432	673054.25	0.640376	0.484149	0.960826
NN_3	0.015937	0.087654	0.754613	0.06790	inf	0.058250	0.007201	0.141706	0.158446	0.309678	709849.25	0.640376	0.484401	0.960902
RNN_1	0.201516	0.632212	0.741503	0.09165	259.469760	0.075795	0.012327	0.183999	0.227727	0.309506	947455.75	0.883764	0.957944	0.989707
RNN_2	0.186137	0.602702	0.707147	0.09165	167.047572	0.067991	0.011967	0.165127	0.207967	0.322933	987569.00	0.894803	0.960697	0.990731
RNN_3	0.197510	0.625260	0.728833	0.09165	200.216641	0.075543	0.012306	0.185352	0.224322	0.309643	981799.50	0.888805	0.958643	0.989538
RNN_4	0.173733	0.576989	0.692340	0.09165	241.697144	0.128692	0.031179	0.280393	0.436134	0.282966	1301521.25	0.867749	0.947057	0.987742

Models Rank Matrix (f1)

	rank
LOF_1	0.632212
LOF_2	0.625260
LOF_3	0.602702
LOF_4	0.576989
NN_1	0.322946
NN_2	0.322946
NN_3	0.322946
RNN_1	0.322946
RNN_2	0.096246
RNN_3	0.087654
RNN_4	0.079863

average rank values

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

markov_aggregated_rank

	rank
LOF_1	0.322946
LOF_2	0.322946
LOF_3	0.322946
LOF_4	0.576989
NN_1	0.087654
NN_2	0.625260
NN_3	0.632212
RNN_1	0.602702
RNN_2	0.079863
RNN_3	0.096246

RNN_4	0.322946

copeland_rank

	rank
LOF_1	0.079863
LOF_2	0.322946
LOF_3	0.096246
LOF_4	0.087654
NN_1	0.322946
NN_2	0.322946
NN_3	0.632212
RNN_1	0.625260
RNN_2	0.602702
RNN_3	0.322946
RNN_4	0.576989

spearmans_footrule

	rank
LOF_1	0.322946
LOF_2	0.322946
LOF_3	0.322946
LOF_4	0.625260
NN_1	0.096246
NN_2	0.322946
NN_3	0.079863
RNN_1	0.602702
RNN_2	0.632212
RNN_3	0.087654
RNN_4	0.576989

Models Borda Rank from F1 Matrix

	rank
LOF_1	0.322946
LOF_2	0.322946
LOF_3	0.322946
LOF_4	0.087654
NN_1	0.322946
NN_2	0.096246
NN_3	0.079863
RNN_1	0.602702
RNN_2	0.625260
RNN_3	0.632212
RNN_4	0.576989

Models Trimmed Borda Rank Matrix

	rank
LOF_1	0.322946
LOF_2	0.322946
LOF_3	0.322946
LOF_4	0.322946
NN_1	0.096246
NN_2	0.087654
NN_3	0.079863
RNN_1	0.602702
RNN_2	0.625260
RNN_3	0.632212
RNN_4	0.576989

Models Partial Borda Rank Matrix

	rank
LOF_1	0.322946
LOF_2	0.322946
LOF_3	0.322946
LOF_4	0.087654
NN_1	0.322946
NN_2	0.079863
NN_3	0.096246
RNN_1	0.632212
RNN_2	0.602702
RNN_3	0.576989
RNN_4	0.625260

Models Trimmed Partial Borda Rank Matrix

	rank
LOF_1	0.322946
LOF_2	0.322946
LOF_3	0.322946
LOF_4	0.322946
NN_1	0.576989
NN_2	0.096246
NN_3	0.079863
RNN_1	0.576989
RNN_2	0.087654
RNN_3	0.576989
RNN_4	0.576989

Models Borda Trimmed Rank Matrix

	rank
LOF_1	0.322946
LOF_2	0.322946
LOF_3	0.322946
LOF_4	0.322946
NN_1	0.096246
NN_2	0.087654
NN_3	0.079863
RNN_1	0.602702
RNN_2	0.625260
RNN_3	0.632212
RNN_4	0.576989

EMPIRICAL INFLUENCE AND ROBUST RANK AGGREGATION

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

Most reliable cluster idx: 0,Largest 0

Statistics

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

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

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

Max PR-AUC: 0.20151633769631475 is achieved by RNN_1

Max F-1: 0.6322116352026019 is achieved by RNN_1

Our chosen model is : LOF_1 which has PR-AUC (using Kemeny)= 0.07219684101958594 and best F-1= 0.3229457508984976

(Normalized Discounted Cumulative Gain) NDCG of predicted ranks with PR-AUC= 0.9561948956285793 and best F-1= 0.9625703338508276