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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_flip	SYNTHETIC_PR-AUC_flip	SYNTHETIC_VUS_flip
LOF_1	0.467251	0.758040	0.759086	0.457992	49.198350	0.011534	0.001913	0.069589	0.082919	0.363155	0.00	0.200454	0.055696	0.634638
LOF_2	0.467251	0.758040	0.759086	0.457992	49.198350	0.011534	0.001913	0.069589	0.082919	0.363155	0.00	0.200454	0.055696	0.634638
LOF_3	0.467251	0.758040	0.759086	0.457992	49.198350	0.011534	0.001913	0.069589	0.082919	0.363155	0.00	0.200454	0.055696	0.634638
LOF_4	0.467251	0.758040	0.759086	0.457992	49.198350	0.011534	0.001913	0.069589	0.082919	0.363155	0.00	0.200454	0.055696	0.634638
NN_1	0.282403	0.530754	0.901418	0.273337	inf	0.028843	0.005225	0.269665	11.717917	0.358425	436278.75	0.040385	0.010304	0.373726
NN_2	0.290220	0.598841	0.888276	0.273337	inf	0.027454	0.005094	0.250669	13.940151	0.359816	401906.25	0.038681	0.009861	0.335177
NN_3	0.286836	0.598841	0.884541	0.273337	inf	0.028473	0.005374	0.259126	15.359948	0.358789	416441.00	0.040987	0.010461	0.341482
RNN_1	0.431492	0.745486	0.914298	0.457992	132.212666	0.024505	0.003447	0.755777	859.667969	0.337701	588847.00	0.100341	0.026411	0.478987
RNN_2	0.444920	0.745585	0.897838	0.457992	114.746905	0.028804	0.004241	0.785740	641.217529	0.317220	686902.50	0.126254	0.033691	0.516459
RNN_3	0.488660	0.735250	0.918799	0.457992	135.693991	0.024489	0.003653	0.723126	584.533325	0.340597	594409.50	0.088176	0.023061	0.462781
RNN_4	0.459926	0.727127	0.913647	0.457992	131.307021	0.028500	0.004015	0.766988	989.250122	0.328303	675113.00	0.079279	0.020638	0.457967

Models Rank Matrix (f1)

	rank
LOF_1	0.758040
LOF_2	0.758040
LOF_3	0.758040
LOF_4	0.758040
NN_1	0.745585
NN_2	0.745486
NN_3	0.735250
RNN_1	0.727127
RNN_2	0.598841
RNN_3	0.598841
RNN_4	0.530754

average rank values

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

markov_aggregated_rank

	rank
LOF_1	0.758040
LOF_2	0.727127
LOF_3	0.758040
LOF_4	0.758040
NN_1	0.745486
NN_2	0.598841
NN_3	0.745585
RNN_1	0.735250
RNN_2	0.530754
RNN_3	0.758040

RNN_4	0.598841
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copeland_rank

	rank
LOF_1	0.758040
LOF_2	0.758040
LOF_3	0.758040
LOF_4	0.758040
NN_1	0.727127
NN_2	0.745585
NN_3	0.735250
RNN_1	0.530754
RNN_2	0.598841
RNN_3	0.598841
RNN_4	0.745486

spearman's_footrule

	rank
LOF_1	0.758040
LOF_2	0.758040
LOF_3	0.758040
LOF_4	0.758040
NN_1	0.745585
NN_2	0.745486
NN_3	0.735250
RNN_1	0.727127
RNN_2	0.598841
RNN_3	0.530754
RNN_4	0.598841

Models Borda Rank from F1 Matrix

	rank
LOF_1	0.758040
LOF_2	0.758040
LOF_3	0.758040
LOF_4	0.758040
NN_1	0.745486
NN_2	0.735250
NN_3	0.745585
RNN_1	0.727127
RNN_2	0.530754
RNN_3	0.598841
RNN_4	0.598841

Models Trimmed Borda Rank Matrix

	rank
LOF_1	0.758040
LOF_2	0.758040
LOF_3	0.758040
LOF_4	0.758040
NN_1	0.530754
NN_2	0.745585
NN_3	0.598841
RNN_1	0.727127
RNN_2	0.598841
RNN_3	0.735250
RNN_4	0.745486

Models Partial Borda Rank Matrix

	rank
LOF_1	0.758040
LOF_2	0.758040
LOF_3	0.758040
LOF_4	0.758040
NN_1	0.745486
NN_2	0.727127
NN_3	0.598841
RNN_1	0.727127
RNN_2	0.598841
RNN_3	0.530754
RNN_4	0.745585

Models Trimmed Partial Borda Rank Matrix

	rank
LOF_1	0.758040
LOF_2	0.758040
LOF_3	0.758040
LOF_4	0.758040
NN_1	0.727127
NN_2	0.727127
NN_3	0.727127
RNN_1	0.727127
RNN_2	0.598841
RNN_3	0.530754
RNN_4	0.727127

Models Borda Trimmed Rank Matrix

	rank
LOF_1	0.758040
LOF_2	0.758040
LOF_3	0.758040
LOF_4	0.758040
NN_1	0.745585
NN_2	0.727127
NN_3	0.745486
RNN_1	0.735250
RNN_2	0.530754
RNN_3	0.598841
RNN_4	0.598841

EMPIRICAL INFLUENCE AND ROBUST RANK AGGREGATION

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

Most reliable cluster idx: 1,Largest 1

Statistics

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

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

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

Max PR-AUC: 0.4886604987217176 is achieved by RNN_3

Max F-1: 0.7580397330524364 is achieved by LOF_1

Our chosen model is : LOF_1 which has PR-AUC (using Kemeny)= 0.46725099585443597 and best F-1= 0.7580397330524364

(Normalized Discounted Cumulative Gain) NDCG of predicted ranks with PR-AUC= 0.9213431405414663 and best F-1= 0.9625747069459302