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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_contextual	SYNTHETIC_PR-AUC_contextual	SYNTHETIC_VUS_contextual
LOF_1	0.003580	0.014218	0.789592	0.061313	30.569098	0.042507	0.009773	0.057626	0.063579	0.354648	0.00	0.999995	0.0	0.792071
LOF_2	0.003580	0.014218	0.789592	0.061313	30.569098	0.042507	0.009773	0.057626	0.063579	0.354648	0.00	0.999995	0.0	0.792071
LOF_3	0.003580	0.014218	0.789592	0.061313	30.569098	0.042507	0.009773	0.057626	0.063579	0.354648	0.00	0.999995	0.0	0.792071
LOF_4	0.003580	0.014218	0.789592	0.061313	30.569098	0.042507	0.009773	0.057626	0.063579	0.354648	0.00	0.999995	0.0	0.792071
NN_1	0.003580	0.014218	0.557855	0.019618	inf	0.192675	0.060902	0.419239	0.382845	0.283059	10922.50	0.812495	0.0	0.753540
NN_2	0.003580	0.014218	0.557855	0.019618	inf	0.156449	0.037396	0.308943	0.304931	0.271286	10114.25	0.812495	0.0	0.780154
NN_3	0.004225	0.016760	0.612499	0.019618	inf	0.158441	0.037688	0.307967	0.313032	0.269132	11039.25	0.812495	0.0	0.780154
RNN_1	0.088235	0.299997	0.803486	0.061313	50.837668	0.173827	0.047194	0.358609	0.338279	0.271191	20827.50	0.999995	0.0	0.780643
RNN_2	0.013513	0.052631	0.782252	0.061313	68.188229	0.170331	0.043787	0.332161	0.340207	0.273894	20703.00	0.999995	0.0	0.789130
RNN_3	0.011905	0.046511	0.818364	0.061313	63.583213	0.177719	0.049511	0.360650	0.326965	0.268721	21049.00	0.999995	0.0	0.828065
RNN_4	0.010489	0.041095	0.761067	0.061313	57.915516	0.180869	0.050861	0.374406	0.349608	0.268467	20118.50	0.999995	0.0	0.789055

Models Rank Matrix (f1)

	rank
LOF_1	0.299997
LOF_2	0.052631
LOF_3	0.046511
LOF_4	0.041095
NN_1	0.016760
NN_2	0.014218
NN_3	0.014218
RNN_1	0.014218
RNN_2	0.014218
RNN_3	0.014218
RNN_4	0.014218

average rank values

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

markov_aggregated_rank

	rank
LOF_1	0.014218
LOF_2	0.014218
LOF_3	0.041095
LOF_4	0.014218
NN_1	0.016760
NN_2	0.052631
NN_3	0.299997
RNN_1	0.046511
RNN_2	0.014218
RNN_3	0.014218

RNN_4	0.014218

copeland_rank

	rank
LOF_1	0.014218
LOF_2	0.014218
LOF_3	0.014218
LOF_4	0.014218
NN_1	0.014218
NN_2	0.014218
NN_3	0.041095
RNN_1	0.052631
RNN_2	0.016760
RNN_3	0.046511
RNN_4	0.299997

spearmans_footrule

	rank
LOF_1	0.014218
LOF_2	0.014218
LOF_3	0.014218
LOF_4	0.014218
NN_1	0.014218
NN_2	0.016760
NN_3	0.046511
RNN_1	0.299997
RNN_2	0.052631
RNN_3	0.041095
RNN_4	0.014218

Models Borda Rank from F1 Matrix

	rank
LOF_1	0.014218
LOF_2	0.014218
LOF_3	0.014218
LOF_4	0.014218
NN_1	0.014218
NN_2	0.299997
NN_3	0.041095
RNN_1	0.052631
RNN_2	0.016760
RNN_3	0.046511
RNN_4	0.014218

Models Trimmed Borda Rank Matrix

	rank
LOF_1	0.014218
LOF_2	0.014218
LOF_3	0.014218
LOF_4	0.014218
NN_1	0.014218
NN_2	0.016760
NN_3	0.041095
RNN_1	0.052631
RNN_2	0.299997
RNN_3	0.046511
RNN_4	0.014218

Models Partial Borda Rank Matrix

	rank
LOF_1	0.014218
LOF_2	0.014218
LOF_3	0.014218
LOF_4	0.014218
NN_1	0.014218
NN_2	0.041095
NN_3	0.041095
RNN_1	0.041095
RNN_2	0.016760
RNN_3	0.041095
RNN_4	0.014218

Models Trimmed Partial Borda Rank Matrix

	rank
LOF_1	0.014218
LOF_2	0.014218
LOF_3	0.014218
LOF_4	0.014218
NN_1	0.016760
NN_2	0.041095
NN_3	0.041095
RNN_1	0.041095
RNN_2	0.014218
RNN_3	0.041095
RNN_4	0.014218

Models Borda Trimmed Rank Matrix

	rank
LOF_1	0.014218
LOF_2	0.014218
LOF_3	0.014218
LOF_4	0.014218
NN_1	0.014218
NN_2	0.016760
NN_3	0.046511
RNN_1	0.299997
RNN_2	0.052631
RNN_3	0.041095
RNN_4	0.014218

EMPIRICAL INFLUENCE AND ROBUST RANK AGGREGATION

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

Most reliable cluster idx: 0,Largest 0

Statistics

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

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

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

Max PR-AUC: 0.08823494809806931 is achieved by RNN_1

Max F-1: 0.29999715001707655 is achieved by RNN_1

Our chosen model is : LOF_1 which has PR-AUC (using Kemeny)= 0.003579940248728516 and best F-1= 0.014217867636438904

(Normalized Discounted Cumulative Gain) NDCG of predicted ranks with PR-AUC= 0.6138138500591883 and best F-1= 0.6344515216047208