

Test accuracy comparison on fourclass

Based on KNN classifier .

NOISE RATE	KNN	RD	CRF	mCRF	CFE	Best r value
5%	0.6880	0.7053	0.9404	0.7111	0.7076	10%
10%	0.6659	0.6914	0.8735	0.6933	0.7186	25%
15%	0.6670	0.6834	0.8387	0.7076	0.6890	15%
20%	0.6821	0.7042	0.7703	0.7007	0.7010	30%
25%	0.6219	0.6195	0.7471	0.6848	0.6949	30%
30%	0.6416	0.6741	0.6556	0.6891	0.6857	25%
40%	0.5444	0.5292	0.5843	0.6174	0.5951	40%

Test accuracy comparison on diabetes

Based on KNN classifier .

NOISE RATE	KNN	RD	CRF	mCRF	CFE	Best r value
5%	0.6589	0.6576	0.7027	0.6523	0.6576	5%
10%	0.6588	0.6588	0.6894	0.6537	0.6588	5%
15%	0.6507	0.6576	0.6586	0.6511	0.6654	10%
20%	0.6601	0.6771	0.6568	0.6549	0.6602	35%
25%	0.6117	0.6758	0.5800	0.6537	0.6771	20%
30%	0.6079	0.6522	0.5915	0.6523	0.6653	5%
40%	0.5245	0.6003	0.5801	0.6524	0.6613	40%

Test accuracy comparison on breastcancer

Based on KNN classifier .

NOISE RATE	KNN	RD	CRF	mCRF	CFE	Best r value
5%	0.8562	0.8418	0.9064	0.8229	0.8433	5%
10%	0.8448	0.1888	0.8752	0.8287	0.8463	10%
15%	0.8461	0.8449	0.7761	0.8287	0.8492	15%
20%	0.8231	0.8286	0.7605	0.8155	0.8357	20%
25%	0.8199	0.8204	0.6972	0.8170	0.8213	25%
30%	0.8229	0.8243	0.6715	0.8053	0.8259	25%
40%	0.7008	0.7008	0.6220	0.7613	0.8155	15%

Test accuracy comparison on creditApproval

Based on KNN classifier.

NOISE RATE	KNN	RD	CRF	mCRF	CFE	Best r value
5%	0.6855	0.6869	0.8055	0.6855	0.6898	20%
10%	0.6739	0.6739	0.7763	0.6812	0.6855	20%
15%	0.6043	0.6101	0.7364	0.6855	0.6841	30%
20%	0.6608	0.6681	0.6864	0.6840	0.6898	20%
25%	0.6464	0.6667	0.6672	0.6420	0.6683	5%
30%	0.5319	0.5319	0.6364	0.6144	0.6478	40%
40%	0.5812	0.5812	0.5800	0.5913	0.5812	10%

Test accuracy comparison on sonar

Based on KNN classifier.

NOISE RATE	KNN	RD	CRF	mCRF	CFE	Best r value
5%	0.4954	0.4954	0.8121	0.4954	0.5003	15%
10%	0.4761	0.4761	0.7661	0.4906	0.4808	5%
15%	0.4998	0.4998	0.6848	0.4998	0.4998	5%
20%	0.5144	0.5339	0.6606	0.4620	0.5437	10%
25%	0.5151	0.5247	0.5939	0.5192	0.5103	15%
30%	0.5144	0.5144	0.6303	0.4949	0.5192	5%
40%	0.5003	0.5293	0.5758	0.5287	0.5293	5%

Test accuracy comparison on votes

Based on KNN classifier.

NOISE RATE	KNN	RD	CRF	mCRF	CFE	Best r value
5%	0.8805	0.8920	0.8957	0.8943	0.9011	5%
10%	0.8874	0.8897	0.8812	0.8904	0.8912	10%
15%	0.8529	0.8552	0.8029	0.8597	0.8851	25%
20%	0.8459	0.8299	0.7797	0.8644	0.8713	30%
25%	0.7793	0.7793	0.6927	0.8675	0.8689	30%
30%	0.7241	0.6920	0.6870	0.8321	0.8207	30%
40%	0.6046	0.5931	0.6348	0.7425	0.6506	35%

Test accuracy comparison on mushrooms

Based on KNN classifier.

NOISE RATE	KNN	RD	CRF	mCRF	CFE	Best r value
5%	0.9930	0.9878	0.9447	0.9990	0.9999	5%
10%	0.9726	0.9111	0.8825	0.9959	0.9993	10%
15%	0.9372	0.7418	0.8157	0.9958	0.9999	20%
20%	0.8913	0.5742	0.7462	0.9933	0.9989	30%
25%	0.8560	0.4607	0.7069	0.9920	0.9969	45%
30%	0.7906	0.4015	0.6607	0.9904	0.9838	50%
40%	0.6556	0.4054	0.5750	0.9444	0.7104	50%

Test accuracy comparison on splice

Based on KNN classifier.

NOISE RATE	KNN	RD	CRF	mCRF	CFE	Best r value
5%	0.6860	0.6860	0.6625	0.6609	0.6910	15%
10%	0.6870	0.6870	0.6650	0.6930	0.7010	10%
15%	0.6700	0.6670	0.6562	0.6690	0.6930	20%
20%	0.6460	0.6400	0.6038	0.6510	0.6550	40%
25%	0.6110	0.6090	0.5600	0.6220	0.6330	20%
30%	0.5960	0.5930	0.5612	0.5990	0.6120	40%
40%	0.5130	0.5160	0.5363	0.5140	0.5550	40%

Test accuracy comparison on fourclass

Based on DT classifier.

NOISE RATE	DT	RD	CRF	mCRF	CFE	Best r value
5%	0.7134	0.7204	0.8749	0.7111	0.7228	25%
10%	0.6580	0.7112	0.8269	0.5870	0.7239	10%
15%	0.5986	0.6472	0.7746	0.5742	0.7239	40%
20%	0.6287	0.7006	0.7238	0.4722	0.7249	30%
25%	0.5720	0.6437	0.6701	0.6564	0.7076	30%
30%	0.5754	0.6147	0.6497	0.6565	0.6786	30%
40%	0.5531	0.5996	0.5828	0.5220	0.6253	35%

Test accuracy comparison on diabetes

Based on DT classifier.

NOISE RATE	DT	RD	CRF	mCRF	CFE	Best r value
5%	0.6222	0.6732	0.6929	0.6693	0.6718	15%
10%	0.4961	0.6693	0.6780	0.6213	0.6914	10%
15%	0.4714	0.6043	0.6586	0.6667	0.6771	20%
20%	0.4571	0.4779	0.5816	0.6719	0.5494	50%
25%	0.4183	0.3126	0.5816	0.6978	0.5287	20%
30%	0.4540	0.4540	0.5278	0.6823	0.5168	35%
40%	0.4892	0.3957	0.5326	0.5272	0.4389	10%

Test accuracy comparison on breastcancer

Based on DT classifier.

NOISE RATE	DT	RD	CRF	mCRF	CFE	Best r value
5%	0.5680	0.8345	0.8642	0.8535	0.8931	15%
10%	0.5694	0.8594	0.8147	0.8375	0.9032	30%
15%	0.5780	0.5869	0.7138	0.8695	0.8872	20%
20%	0.7053	0.6978	0.6899	0.8476	0.8535	25%
25%	0.7051	0.7037	0.6569	0.8536	0.8360	40%
30%	0.4840	0.5840	0.6257	0.8623	0.8242	45%
40%	0.3620	0.4614	0.5541	0.7475	0.8139	45%

Test accuracy comparison on creditApproval

Based on DT classifier.

NOISE RATE	DT	RD	CRF	mCRF	CFE	Best r value
5%	0.4623	0.5232	0.8036	0.5406	0.5536	15%
10%	0.4884	0.4232	0.7109	0.5145	0.5551	35%
15%	0.4318	0.4768	0.6691	0.5319	0.5623	40%
20%	0.4986	0.5014	0.6455	0.5232	0.5710	30%
25%	0.4797	0.4594	0.6600	0.5580	0.5217	35%
30%	0.4739	0.5217	0.6200	0.4899	0.5986	35%
40%	0.5000	0.4768	0.5691	0.4812	0.5899	45%

Test accuracy comparison on snoar

Based on DT classifier.

NOISE RATE	DT	RD	CRF	mCRF	CFE	Best r value
5%	0.5049	0.4836	0.7636	0.5120	0.5164	5%
10%	0.4661	0.4275	0.7152	0.4904	0.4998	5%
15%	0.4477	0.4666	0.7455	0.4854	0.4808	10%
20%	0.5146	0.5382	0.6667	0.4616	0.5725	15%
25%	0.4465	0.4517	0.6606	0.4754	0.5386	30%
30%	0.4811	0.5149	0.6485	0.5437	0.5675	30%
40%	0.4466	0.5293	0.6061	0.5384	0.5815	40%

Test accuracy comparison on votes

Based on DT classifier.

NOISE RATE	DT	RD	CRF	mCRF	CFE	Best r value
5%	0.7448	0.8460	0.8928	0.8943	0.9448	35%
10%	0.5931	0.7448	0.8261	0.7471	0.9149	30%
15%	0.5011	0.6161	0.7681	0.8253	0.8621	30%
20%	0.4943	0.5770	0.7043	0.7333	0.7080	45%
25%	0.4897	0.6138	0.6435	0.6575	0.7310	35%
30%	0.3747	0.4345	0.6261	0.6575	0.6230	50%
40%	0.4276	0.5195	0.5884	0.4667	0.6276	30%

Test accuracy comparison on mushrooms

Based on DT classifier.

NOISE RATE	DT	RD	CRF	mCRF	CFE	Best r value
5%	0.9193	0.9807	0.8832	0.9905	0.9948	5%
10%	0.8614	0.9239	0.7879	0.9947	0.9994	15%
15%	0.8143	0.8596	0.7229	0.9889	0.9969	20%
20%	0.7614	0.8085	0.6663	0.9916	0.9996	40%
25%	0.7226	0.7520	0.6350	0.9871	0.9790	40%
30%	0.6739	0.6923	0.5921	0.9830	0.9474	50%
40%	0.5772	0.5851	0.5394	0.9517	0.7120	45%

Test accuracy comparison on splice

Based on DT classifier.

NOISE RATE	DT	RD	CRF	mCRF	CFE	Best r value
5%	0.4810	0.5050	0.8338	0.5010	0.6030	40%
10%	0.4800	0.4690	0.7513	0.5070	0.5740	35%
15%	0.4940	0.4850	0.7038	0.5230	0.5420	35%
20%	0.4620	0.5070	0.6750	0.4900	0.5480	35%
25%	0.5120	0.5230	0.6050	0.5000	0.5730	45%
30%	0.5070	0.5290	0.5825	0.5200	0.5430	30%
40%	0.4880	0.4910	0.5475	0.5140	0.5420	30%

Test accuracy comparison on fourclass

Based on LR classifier.

NOISE RATE	LR	RD	CRF	mCRF	CFE	Best r value
5%	0.7807	0.7842	0.7559	0.7842	0.7830	5%
10%	0.7738	0.7784	0.7268	0.7807	0.7819	30%
15%	0.7784	0.7819	0.6934	0.7772	0.7819	10%
20%	0.7807	0.7841	0.6541	0.7761	0.7865	25%
25%	0.7772	0.7773	0.6396	0.7796	0.7819	30%
30%	0.7761	0.7761	0.6164	0.7657	0.7830	15%
40%	0.7587	0.7610	0.5713	0.7436	0.7564	5%

Test accuracy comparison on diabetes

Based on LR classifier.

NOISE RATE	LR	RD	CRF	mCRF	CFE	Best r value
5%	0.6511	0.6511	0.7419	0.6511	0.6511	5%
10%	0.6511	0.6511	0.7093	0.6511	0.6524	25%
15%	0.6511	0.6511	0.7125	0.6511	0.6524	20%
20%	0.6524	0.6524	0.6520	0.6511	0.6537	20%
25%	0.6550	0.6550	0.6128	0.6511	0.6576	35%
30%	0.6498	0.6498	0.6177	0.6511	0.6628	40%
40%	0.6471	0.6446	0.5524	0.6498	0.6615	10%

Test accuracy comparison on breastcancer

Based on LR classifier.

NOISE RATE	LR	RD	CRF	mCRF	CFE	Best r value
5%	0.7380	0.7453	0.9229	0.7658	0.7819	10%
10%	0.7731	0.7657	0.8697	0.7760	0.7775	30%
15%	0.7657	0.7614	0.8404	0.7687	0.7878	35%
20%	0.7644	0.7453	0.7761	0.7628	0.7891	45%
25%	0.7628	0.7525	0.7321	0.7614	0.7893	50%
30%	0.7893	0.7805	0.7119	0.7366	0.8126	35%
40%	0.7440	0.7440	0.6092	0.7601	0.7616	15%

Test accuracy comparison on creditApproval

Based on LR classifier.

NOISE RATE	LR	RD	CRF	mCRF	CFE	Best r value
5%	0.6725	0.6841	0.8164	0.7014	0.6971	20%
10%	0.6812	0.6768	0.7745	0.6797	0.6841	15%
15%	0.6681	0.6913	0.7127	0.6754	0.6783	25%
20%	0.6899	0.6870	0.7055	0.6667	0.6667	30%
25%	0.6725	0.6406	0.6836	0.6188	0.6667	5%
30%	0.6797	0.6768	0.6619	0.6725	0.6783	10%
40%	0.5145	0.5420	0.6091	0.5217	0.5696	35%

Test accuracy comparison on sonar

Based on LR classifier.

NOISE RATE	LR	RD	CRF	mCRF	CFE	Best r value
5%	0.4762	0.4810	0.7879	0.4761	0.4858	10%
10%	0.4713	0.4762	0.7818	0.4618	0.4809	5%
15%	0.4856	0.4761	0.7273	0.4761	0.4904	40%
20%	0.5635	0.5538	0.6788	0.5149	0.5346	15%
25%	0.5391	0.5635	0.6364	0.5250	0.5393	10%
30%	0.5782	0.5732	0.6242	0.5590	0.5927	5%
40%	0.6059	0.5914	0.5758	0.5336	0.6153	35%

Test accuracy comparison on votes

Based on LR classifier.

NOISE RATE	LR	RD	CRF	mCRF	CFE	Best r value
5%	0.9264	0.9264	0.9159	0.9057	0.9274	5%
10%	0.9218	0.9218	0.8724	0.9218	0.9241	15%
15%	0.9287	0.9287	0.8058	0.9310	0.9333	10%
20%	0.9195	0.9241	0.7710	0.9264	0.9264	30%
25%	0.9103	0.9195	0.7246	0.9126	0.9172	10%
30%	0.9034	0.9011	0.6928	0.9195	0.9218	25%
40%	0.7471	0.7471	0.6551	0.8437	0.8207	50%

Test accuracy comparison on mushrooms

Based on LR classifier.

NOISE RATE	LR	RD	CRF	mCRF	CFE	Best r value
5%	0.9961	0.9991	0.9480	0.9986	0.9994	5%
10%	0.8965	0.9810	0.9033	0.9918	0.9994	10%
15%	0.8786	0.9511	0.8453	0.9834	0.9995	15%
20%	0.8145	0.8039	0.7986	0.9737	0.9995	25%
25%	0.7788	0.7324	0.7549	0.9487	0.9978	40%
30%	0.8514	0.8170	0.6924	0.9196	0.9893	50%
40%	0.7437	0.7021	0.6122	0.8196	0.8222	20%

Test accuracy comparison on splice

Based on LR classifier.

NOISE RATE	LR	RD	CRF	mCRF	CFE	Best r value
5%	0.7780	0.7830	0.7763	0.7780	0.7810	10%
10%	0.7970	0.7980	0.7363	0.7970	0.8000	20%
15%	0.7550	0.7610	0.7000	0.7490	0.7710	15%
20%	0.7250	0.7260	0.6560	0.7090	0.7440	20%
25%	0.7390	0.7440	0.6250	0.7460	0.7480	5%
30%	0.6960	0.6960	0.6288	0.7070	0.6970	5%
40%	0.5910	0.6040	0.5438	0.5920	0.5860	10%