

### Test accuracy comparison on fourclass

Based on KNN classifier .

NOISE RATE	KNN	RD	CRF	mCRF	CFE	Best r value
5%	0.6880	0.7053	<b>0.9404</b>	0.7111	0.7076	10%
10%	0.6659	0.6914	<b>0.8735</b>	0.6933	0.7186	25%
15%	0.6670	0.6834	<b>0.8387</b>	0.7076	0.6890	15%
20%	0.6821	0.7042	<b>0.7703</b>	0.7007	0.7010	30%
25%	0.6219	0.6195	<b>0.7471</b>	0.6848	0.6949	30%
30%	0.6416	0.6741	0.6556	<b>0.6891</b>	0.6857	25%
40%	0.5444	0.5292	0.5843	<b>0.6174</b>	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	<b>0.7027</b>	0.6523	0.6576	5%
10%	0.6588	0.6588	<b>0.6894</b>	0.6537	0.6588	5%
15%	0.6507	0.6576	0.6586	0.6511	<b>0.6654</b>	10%
20%	0.6601	<b>0.6771</b>	0.6568	0.6549	0.6602	35%
25%	0.6117	0.6758	0.5800	0.6537	<b>0.6771</b>	20%
30%	0.6079	0.6522	0.5915	0.6523	<b>0.6653</b>	5%
40%	0.5245	0.6003	0.5801	0.6524	<b>0.6613</b>	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	<b>0.9064</b>	0.8229	0.8433	5%
10%	0.8448	0.1888	<b>0.8752</b>	0.8287	0.8463	10%
15%	0.8461	0.8449	0.7761	0.8287	<b>0.8492</b>	15%
20%	0.8231	0.8286	0.7605	0.8155	<b>0.8357</b>	20%
25%	0.8199	0.8204	0.6972	0.8170	<b>0.8213</b>	25%
30%	0.8229	0.8243	0.6715	0.8053	<b>0.8259</b>	25%
40%	0.7008	0.7008	0.6220	0.7613	<b>0.8155</b>	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	<b>0.8055</b>	0.6855	0.6898	20%
10%	0.6739	0.6739	<b>0.7763</b>	0.6812	0.6855	20%
15%	0.6043	0.6101	<b>0.7364</b>	0.6855	0.6841	30%
20%	0.6608	0.6681	0.6864	0.6840	<b>0.6898</b>	20%
25%	0.6464	0.6667	0.6672	0.6420	<b>0.6683</b>	5%
30%	0.5319	0.5319	0.6364	0.6144	<b>0.6478</b>	40%
40%	0.5812	0.5812	0.5800	<b>0.5913</b>	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	<b>0.8121</b>	0.4954	0.5003	15%
10%	0.4761	0.4761	<b>0.7661</b>	0.4906	0.4808	5%
15%	0.4998	0.4998	<b>0.6848</b>	0.4998	0.4998	5%
20%	0.5144	0.5339	<b>0.6606</b>	0.4620	0.5437	10%
25%	0.5151	0.5247	<b>0.5939</b>	0.5192	0.5103	15%
30%	0.5144	0.5144	<b>0.6303</b>	0.4949	0.5192	5%
40%	0.5003	0.5293	<b>0.5758</b>	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	<b>0.9011</b>	5%
10%	0.8874	0.8897	0.8812	0.8904	<b>0.8912</b>	10%
15%	0.8529	0.8552	0.8029	0.8597	<b>0.8851</b>	25%
20%	0.8459	0.8299	0.7797	0.8644	<b>0.8713</b>	30%
25%	0.7793	0.7793	0.6927	0.8675	<b>0.8689</b>	30%
30%	0.7241	0.6920	0.6870	<b>0.8321</b>	0.8207	30%
40%	0.6046	0.5931	0.6348	<b>0.7425</b>	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	<b>0.9999</b>	5%
10%	0.9726	0.9111	0.8825	0.9959	<b>0.9993</b>	10%
15%	0.9372	0.7418	0.8157	0.9958	<b>0.9999</b>	20%
20%	0.8913	0.5742	0.7462	0.9933	<b>0.9989</b>	30%
25%	0.8560	0.4607	0.7069	0.9920	<b>0.9969</b>	45%
30%	0.7906	0.4015	0.6607	<b>0.9904</b>	0.9838	50%
40%	0.6556	0.4054	0.5750	<b>0.9444</b>	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	<b>0.6910</b>	15%
10%	0.6870	0.6870	0.6650	0.6930	<b>0.7010</b>	10%
15%	0.6700	0.6670	0.6562	0.6690	<b>0.6930</b>	20%
20%	0.6460	0.6400	0.6038	0.6510	<b>0.6550</b>	40%
25%	0.6110	0.6090	0.5600	0.6220	<b>0.6330</b>	20%
30%	0.5960	0.5930	0.5612	0.5990	<b>0.6120</b>	40%
40%	0.5130	0.5160	0.5363	0.5140	<b>0.5550</b>	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	<b>0.8749</b>	0.7111	0.7228	25%
10%	0.6580	0.7112	<b>0.8269</b>	0.5870	0.7239	10%
15%	0.5986	0.6472	<b>0.7746</b>	0.5742	0.7239	40%
20%	0.6287	0.7006	0.7238	0.4722	<b>0.7249</b>	30%
25%	0.5720	0.6437	0.6701	0.6564	<b>0.7076</b>	30%
30%	0.5754	0.6147	0.6497	0.6565	<b>0.6786</b>	30%
40%	0.5531	0.5996	0.5828	0.5220	<b>0.6253</b>	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	<b>0.6929</b>	0.6693	0.6718	15%
10%	0.4961	0.6693	0.6780	0.6213	<b>0.6914</b>	10%
15%	0.4714	0.6043	0.6586	0.6667	<b>0.6771</b>	20%
20%	0.4571	0.4779	0.5816	<b>0.6719</b>	0.5494	50%
25%	0.4183	0.3126	0.5816	<b>0.6978</b>	0.5287	20%
30%	0.4540	0.4540	0.5278	<b>0.6823</b>	0.5168	35%
40%	0.4892	0.3957	<b>0.5326</b>	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	<b>0.8931</b>	15%
10%	0.5694	0.8594	0.8147	0.8375	<b>0.9032</b>	30%
15%	0.5780	0.5869	0.7138	0.8695	<b>0.8872</b>	20%
20%	0.7053	0.6978	0.6899	0.8476	<b>0.8535</b>	25%
25%	0.7051	0.7037	0.6569	<b>0.8536</b>	0.8360	40%
30%	0.4840	0.5840	0.6257	<b>0.8623</b>	0.8242	45%
40%	0.3620	0.4614	0.5541	0.7475	<b>0.8139</b>	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	<b>0.8036</b>	0.5406	0.5536	15%
10%	0.4884	0.4232	<b>0.7109</b>	0.5145	0.5551	35%
15%	0.4318	0.4768	<b>0.6691</b>	0.5319	0.5623	40%
20%	0.4986	0.5014	<b>0.6455</b>	0.5232	0.5710	30%
25%	0.4797	0.4594	<b>0.6600</b>	0.5580	0.5217	35%
30%	0.4739	0.5217	<b>0.6200</b>	0.4899	0.5986	35%
40%	0.5000	0.4768	0.5691	0.4812	<b>0.5899</b>	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	<b>0.7636</b>	0.5120	0.5164	5%
10%	0.4661	0.4275	<b>0.7152</b>	0.4904	0.4998	5%
15%	0.4477	0.4666	<b>0.7455</b>	0.4854	0.4808	10%
20%	0.5146	0.5382	<b>0.6667</b>	0.4616	0.5725	15%
25%	0.4465	0.4517	<b>0.6606</b>	0.4754	0.5386	30%
30%	0.4811	0.5149	<b>0.6485</b>	0.5437	0.5675	30%
40%	0.4466	0.5293	<b>0.6061</b>	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	<b>0.9448</b>	35%
10%	0.5931	0.7448	0.8261	0.7471	<b>0.9149</b>	30%
15%	0.5011	0.6161	0.7681	0.8253	<b>0.8621</b>	30%
20%	0.4943	0.5770	0.7043	<b>0.7333</b>	0.7080	45%
25%	0.4897	0.6138	0.6435	0.6575	<b>0.7310</b>	35%
30%	0.3747	0.4345	0.6261	<b>0.6575</b>	0.6230	50%
40%	0.4276	0.5195	0.5884	0.4667	<b>0.6276</b>	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	<b>0.9948</b>	5%
10%	0.8614	0.9239	0.7879	0.9947	<b>0.9994</b>	15%
15%	0.8143	0.8596	0.7229	0.9889	<b>0.9969</b>	20%
20%	0.7614	0.8085	0.6663	0.9916	<b>0.9996</b>	40%
25%	0.7226	0.7520	0.6350	<b>0.9871</b>	0.9790	40%
30%	0.6739	0.6923	0.5921	<b>0.9830</b>	0.9474	50%
40%	0.5772	0.5851	0.5394	<b>0.9517</b>	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	<b>0.8338</b>	0.5010	0.6030	40%
10%	0.4800	0.4690	<b>0.7513</b>	0.5070	0.5740	35%
15%	0.4940	0.4850	<b>0.7038</b>	0.5230	0.5420	35%
20%	0.4620	0.5070	<b>0.6750</b>	0.4900	0.5480	35%
25%	0.5120	0.5230	<b>0.6050</b>	0.5000	0.5730	45%
30%	0.5070	0.5290	<b>0.5825</b>	0.5200	0.5430	30%
40%	0.4880	0.4910	<b>0.5475</b>	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	<b>0.7842</b>	0.7830	5%
10%	0.7738	0.7784	0.7268	0.7807	<b>0.7819</b>	30%
15%	0.7784	<b>0.7819</b>	0.6934	0.7772	<b>0.7819</b>	10%
20%	0.7807	0.7841	0.6541	0.7761	<b>0.7865</b>	25%
25%	0.7772	0.7773	0.6396	0.7796	<b>0.7819</b>	30%
30%	0.7761	0.7761	0.6164	0.7657	<b>0.7830</b>	15%
40%	0.7587	<b>0.7610</b>	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	<b>0.7419</b>	0.6511	0.6511	5%
10%	0.6511	0.6511	<b>0.7093</b>	0.6511	0.6524	25%
15%	0.6511	0.6511	<b>0.7125</b>	0.6511	0.6524	20%
20%	0.6524	0.6524	0.6520	0.6511	<b>0.6537</b>	20%
25%	0.6550	0.6550	0.6128	0.6511	<b>0.6576</b>	35%
30%	0.6498	0.6498	0.6177	0.6511	<b>0.6628</b>	40%
40%	0.6471	0.6446	0.5524	0.6498	<b>0.6615</b>	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	<b>0.9229</b>	0.7658	0.7819	10%
10%	0.7731	0.7657	<b>0.8697</b>	0.7760	0.7775	30%
15%	0.7657	0.7614	<b>0.8404</b>	0.7687	0.7878	35%
20%	0.7644	0.7453	0.7761	0.7628	<b>0.7891</b>	45%
25%	0.7628	0.7525	0.7321	0.7614	<b>0.7893</b>	50%
30%	0.7893	0.7805	0.7119	0.7366	<b>0.8126</b>	35%
40%	0.7440	0.7440	0.6092	0.7601	<b>0.7616</b>	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	<b>0.8164</b>	0.7014	0.6971	20%
10%	0.6812	0.6768	<b>0.7745</b>	0.6797	0.6841	15%
15%	0.6681	0.6913	<b>0.7127</b>	0.6754	0.6783	25%
20%	0.6899	0.6870	<b>0.7055</b>	0.6667	0.6667	30%
25%	0.6725	0.6406	<b>0.6836</b>	0.6188	0.6667	5%
30%	<b>0.6797</b>	0.6768	0.6619	0.6725	0.6783	10%
40%	0.5145	0.5420	<b>0.6091</b>	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	<b>0.7879</b>	0.4761	0.4858	10%
10%	0.4713	0.4762	<b>0.7818</b>	0.4618	0.4809	5%
15%	0.4856	0.4761	<b>0.7273</b>	0.4761	0.4904	40%
20%	0.5635	0.5538	<b>0.6788</b>	0.5149	0.5346	15%
25%	0.5391	0.5635	<b>0.6364</b>	0.5250	0.5393	10%
30%	0.5782	0.5732	<b>0.6242</b>	0.5590	0.5927	5%
40%	0.6059	0.5914	0.5758	0.5336	<b>0.6153</b>	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	<b>0.9274</b>	5%
10%	0.9218	0.9218	0.8724	0.9218	<b>0.9241</b>	15%
15%	0.9287	0.9287	0.8058	0.9310	<b>0.9333</b>	10%
20%	0.9195	0.9241	0.7710	<b>0.9264</b>	<b>0.9264</b>	30%
25%	0.9103	<b>0.9195</b>	0.7246	0.9126	0.9172	10%
30%	0.9034	0.9011	0.6928	0.9195	<b>0.9218</b>	25%
40%	0.7471	0.7471	0.6551	<b>0.8437</b>	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	<b>0.9994</b>	5%
10%	0.8965	0.9810	0.9033	0.9918	<b>0.9994</b>	10%
15%	0.8786	0.9511	0.8453	0.9834	<b>0.9995</b>	15%
20%	0.8145	0.8039	0.7986	0.9737	<b>0.9995</b>	25%
25%	0.7788	0.7324	0.7549	0.9487	<b>0.9978</b>	40%
30%	0.8514	0.8170	0.6924	0.9196	<b>0.9893</b>	50%
40%	0.7437	0.7021	0.6122	0.8196	<b>0.8222</b>	20%

Test accuracy comparison on splice

Based on LR classifier.

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