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A Deep Prediction Of Chronic Kidney Disease

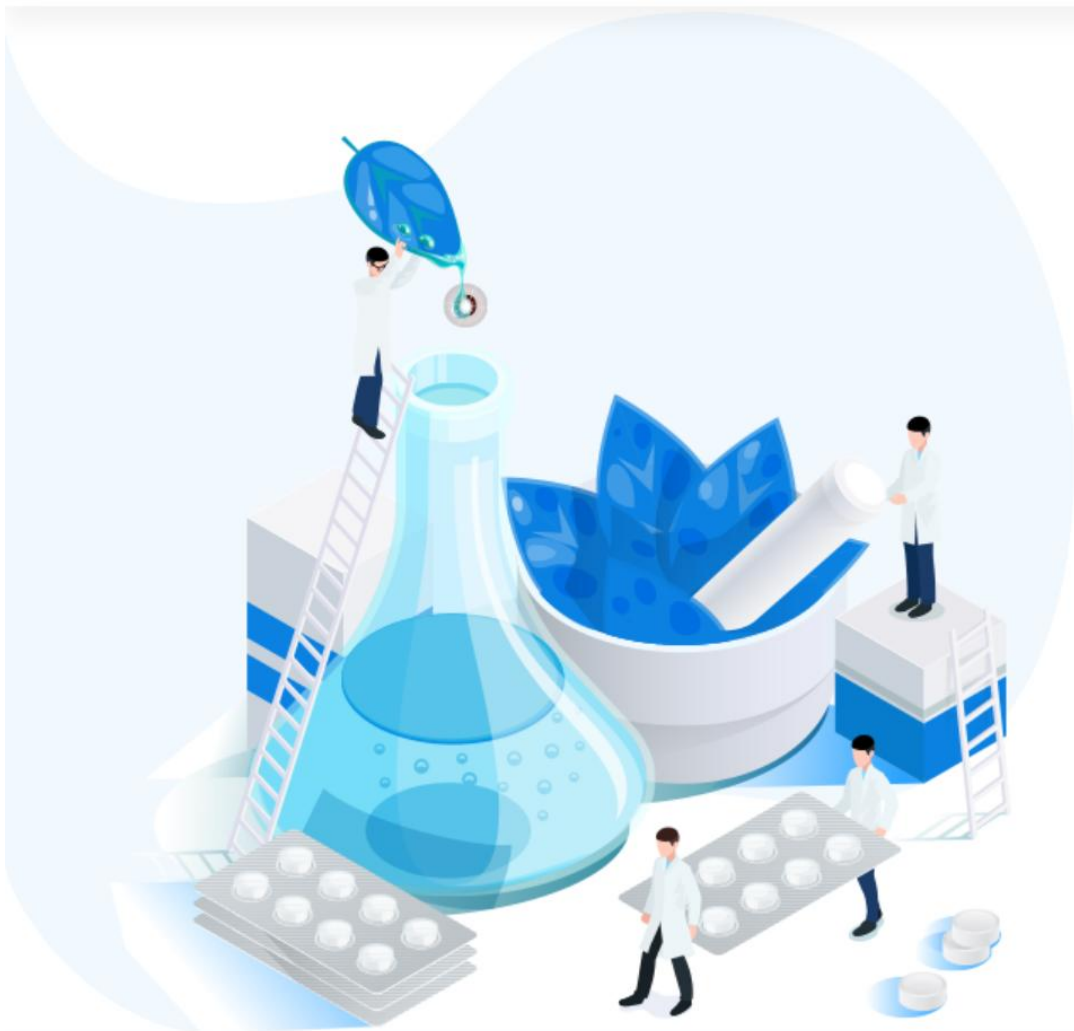
by Employing Machine Learning Method





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Preview

	age	bp	sg	al	su	rbc	pc	pcc	ba	bgr	bu	sc	sod	pot	hemo	pcv	wc	rc	htn	dm	cad	appet	pe	ane	classification
Id																									
0	48.0	80.0	1.020	1.0	0.0	-	normal	notpresent	notpresent	121.0	36.0	1.20	-	-	15.4	44	7800	5.2	yes	yes	no	good	no	no	ckd
1	7.0	50.0	1.020	4.0	0.0	-	normal	notpresent	notpresent	-	18.0	0.80	-	-	11.3	38	6000	-	no	no	no	good	no	no	ckd
2	62.0	80.0	1.010	2.0	3.0	normal	normal	notpresent	notpresent	423.0	53.0	1.80	-	-	9.6	31	7500	-	no	yes	no	poor	no	yes	ckd
3	48.0	70.0	1.005	4.0	0.0	normal	abnormal	present	notpresent	117.0	56.0	3.80	111.0	2.5	11.2	32	6700	3.9	yes	no	no	poor	yes	yes	ckd
4	51.0	80.0	1.010	2.0	0.0	normal	normal	notpresent	notpresent	106.0	26.0	1.40	-	-	11.6	35	7300	4.6	no	no	no	good	no	no	ckd
5	60.0	90.0	1.015	3.0	0.0	-	-	notpresent	notpresent	74.0	25.0	1.10	142.0	3.2	12.2	39	7800	4.4	yes	yes	no	good	yes	no	ckd
6	68.0	70.0	1.010	0.0	0.0	-	normal	notpresent	notpresent	100.0	54.0	24.00	104.0	4.0	12.4	36	-	-	no	no	no	good	no	no	ckd
7	24.0	-	1.015	2.0	4.0	normal	abnormal	notpresent	notpresent	410.0	31.0	1.10	-	-	12.4	44	6900	5	no	yes	no	good	yes	no	ckd
8	52.0	100.0	1.015	3.0	0.0	normal	abnormal	present	notpresent	138.0	60.0	1.90	-	-	10.8	33	9600	4	yes	yes	no	good	no	yes	ckd
9	53.0	90.0	1.020	2.0	0.0	abnormal	abnormal	present	notpresent	70.0	107.0	7.20	114.0	3.7	9.5	29	12100	3.7	yes	yes	no	poor	no	yes	ckd
10	50.0	60.0	1.010	2.0	4.0	-	abnormal	present	notpresent	490.0	55.0	4.00	-	-	9.4	28	-	-	yes	yes	no	good	no	yes	ckd
11	63.0	70.0	1.010	3.0	0.0	abnormal	abnormal	present	notpresent	380.0	60.0	2.70	131.0	4.2	10.8	32	4500	3.8	yes	yes	no	poor	yes	no	ckd
12	68.0	70.0	1.015	3.0	1.0	-	normal	present	notpresent	208.0	72.0	2.10	138.0	5.8	9.7	28	12200	3.4	yes	yes	yes	poor	yes	no	ckd
13	68.0	70.0	-	-	-	-	-	notpresent	notpresent	98.0	86.0	4.60	135.0	3.4	9.8	-	-	-	yes	yes	yes	poor	yes	no	ckd
14	68.0	80.0	1.010	3.0	2.0	normal	abnormal	present	present	157.0	90.0	4.10	130.0	6.4	5.6	16	11000	2.6	yes	yes	yes	poor	yes	no	ckd
15	40.0	80.0	1.015	3.0	0.0	-	normal	notpresent	notpresent	76.0	162.0	9.60	141.0	4.9	7.6	24	3800	2.8	yes	no	no	good	no	yes	ckd
16	47.0	70.0	1.015	2.0	0.0	-	normal	notpresent	notpresent	99.0	46.0	2.20	138.0	4.1	12.6	-	-	-	no	no	no	good	no	no	ckd



Prediction

Chronic Kidney Disease Prediction

AGE:	<input type="text" value="age"/>	BLOOD_PRESSURE:	<input type="text" value="blood_pressure"/>
ALBUMIN:	<input type="text" value="Albumin"/>	SUGAR:	<input type="text" value="sugar"/>
RED_BLOOD_CELLS:	<input type="text" value="Normal"/>	PUS_CELL:	<input type="text" value="Normal"/>
PUS_CELL_CLUMPS:	<input type="text" value="Present"/>	BACTERIA:	<input type="text" value="Present"/>
BLOOD_GLUCOSE_RANDOM:	<input type="text" value="blood_glucose"/>	BLOOD_UREA:	<input type="text" value="blood_urea"/>
SERUM_CREATININE:	<input type="text" value="Serum_Creatin"/>	POTASSIUM:	<input type="text" value="Potassium"/>
WHITE_BLOOD_CELL_COUNT:	<input type="text" value="white_blood_c"/>	HYPERTENSION:	<input type="text" value="yes"/>
DIABETES_MELLITUS:	<input type="text" value="yes"/>	CORONARY_ARTERY_DISEASE:	<input type="text" value="yes"/>
PEDAL_DEMA:	<input type="text" value="yes"/>	ANAEMIA :	<input type="text" value="yes"/>

Predict

Prediction is:



Prediction

Chronic Kidney Disease Prediction

AGE:	<input type="text" value="20"/>	BLOOD_PRESSURE:	<input type="text" value="89"/>
ALBUMIN:	<input type="text" value="10"/>	SUGAR:	<input type="text" value="90"/>
RED_BLOOD_CELLS:	<input type="text" value="Normal"/>	PUS_CELL:	<input type="text" value="Normal"/>
PUS_CELL_CLUMPS:	<input type="text" value="Present"/>	BACTERIA:	<input type="text" value="Present"/>
BLOOD_GLUCOSE_RANDOM:	<input type="text" value="2"/>	BLOOD_UREA:	<input type="text" value="99"/>
SERUM_CREATININE:	<input type="text" value="22"/>	POTASSIUM:	<input type="text" value="1"/>
WHITE_BLOOD_CELL_COUNT:	<input type="text" value="2"/>	HYPERTENSION:	<input type="text" value="yes"/>
DIABETES_MELLITUS:	<input type="text" value="yes"/>	CORONARY_ARTERY_DISEASE:	<input type="text" value="yes"/>



Performance_Analysis

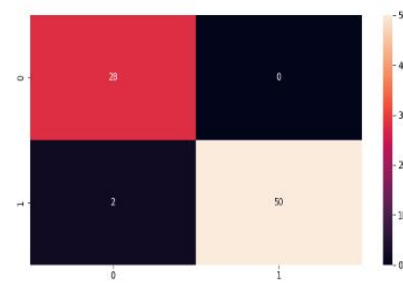
recall,F1 and Precision

Recall f1 Precision

Normal 0.93 1.00 0.97

Abnormal 1.00 0.96 0.98

Confusion Matrix



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Chart



CHART

Chronic Kidney

