

Team ID	PNT2022TMID52708
Project Name	Early Detection of Chronic Kidney Disease using Machine Learning

READ THE DATASET

```
In [2]: data=pd.read_csv(r"C:\\Users\\Sasikumar\\Desktop\\chronickidneydisease.csv")
data.head()
```

```
Out[2]:
```

	id	age	bp	sg	al	su	rbc	pc	pcc	ba	...	pcv	wc	rc	htn	dm	cad	appet	pe	ane	classification
0	0	48.0	80.0	1.020	1.0	0.0	NaN	normal	notpresent	notpresent	...	44	7800	5.2	yes	yes	no	good	no	no	ckd
1	1	7.0	50.0	1.020	4.0	0.0	NaN	normal	notpresent	notpresent	...	38	6000	NaN	no	no	no	good	no	no	ckd
2	2	62.0	80.0	1.010	2.0	3.0	normal	normal	notpresent	notpresent	...	31	7500	NaN	no	yes	no	poor	no	yes	ckd
3	3	48.0	70.0	1.005	4.0	0.0	normal	abnormal	present	notpresent	...	32	6700	3.9	yes	no	no	poor	yes	yes	ckd
4	4	51.0	80.0	1.010	2.0	0.0	normal	normal	notpresent	notpresent	...	35	7300	4.6	no	no	no	good	no	no	ckd

5 rows × 26 columns

```
In [3]: data.drop(["id"],axis=1,inplace=True)
data.columns
```

```
Out[3]: Index(['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'],
              dtype='object')
```

```
In [4]: data.columns=['age','blood_pressure','specific_gravity','albumin','sugar','red_blood_cells','pus_cell','pus_cell_clumps','bacteri
data.columns
```

```
Out[4]: Index(['age', 'blood_pressure', 'specific_gravity', 'albumin', 'sugar',
              'red_blood_cells', 'pus_cell', 'pus_cell_clumps', 'bacteria',
              'blood_glucose_random', 'blood_urea', 'serum_creatinine', 'sodium',
              'potassium', 'hemoglobin', 'packed_cell_volume',
              'white_blood_cell_count', 'red_blood_cell_count', 'hypertension',
              'diabetes_mellitus', 'coronary_artery_disease', 'appetite',
              'pedal_edema', 'anemia', 'class'],
              dtype='object')
```