

Team ID	PNT2022TMID52708
Project Name	Early Detection Of Chronic Kidney Disease Using Machine Learning Algorithms

MODEL BUILDING

```
: cols=['red_blood_cells','pus_cell','blood_glucose_random','blood_urea','pedal_edema','anemia','diabetes_mellitus','coronary_artery_disease']
x=pd.DataFrame(data,columns=cols)
y=pd.DataFrame(data,columns=['class'])
print(x.shape)
print(y.shape)
```

(400, 8)
(400, 1)

```
: x_train,x_test,y_train,y_test = train_test_split(x,y,test_size=0.2,random_state=2)
print(x_train.shape)
print(y_train.shape)
print(x_test.shape)
print(y_test.shape)
```

(320, 8)
(320, 1)
(80, 8)
(80, 1)

```
x_test.head()
```

	red_blood_cells	pus_cell	blood_glucose_random	blood_urea	pedal_edema	anemia	diabetes_mellitus	coronary_artery_disease
94	1	1	93.0	66.0	0	0	1	0
32	1	1	159.0	39.0	0	0	1	0
225	0	1	490.0	95.0	0	0	1	0
157	1	0	122.0	42.0	0	0	1	0
356	1	1	87.0	38.0	0	0	0	0

```
classifier= DecisionTreeClassifier(criterion='gini', random_state=0)
```

```
classifier.fit(x_train, y_train)
```

DecisionTreeClassifier(random_state=0)

In a Jupyter environment, please rerun this cell to show the HTML representation or trust the notebook.
On GitHub, the HTML representation is unable to render, please try loading this page with nbviewer.org.