Project Development Phase
Model Performance Test

Date	17 November 2022
Team ID	PNT2022TMID30154
Project Name	Project – Early detection of chronic kidney disease
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values
1.	Metrics	**Classification Model – Random forest classifier :** **Confusion Matrix :** Performance measure of ML classification. print(confusion_matrix(y_test,y_pred)) [[52 , 2] [1 , 25]] True positive - 52 True negative - 2 False positive - 1 False negative – 25 **Accuracy Score:** accuracy_score(y_test, y_pred) 0.9625 **Classification Report :** model.score(x_train,y_train) 1.0
2.	Tune the Model	**Validation Method :** Validation done by giving the random input and testing the model. y_pred1 = model.predict([[12,123,123,0,0,0,0,0,0,0]]) print(y_pred1) [‘ckd’]

Screenshots :

Metrics :

```
In [99]: accuracy_score(y_test,y_pred)
Out[99]: 0.9625

In [100]: model.score(x_train,y_train)
Out[100]: 1.0
```

Model Evaluation

```
In [102]: print(confusion_matrix(y_test,y_pred))
[[52  2]
 [ 1 25]]
```

True positive = 52 True negative = 2 False positive = 1 False negative = 25

Tune the model :

Test the model

```
In [98]: y_pred1=model.predict([[12,123,123,0,0,0,0,0,0,0]])
print(y_pred1)
['ckd']
C:\Users\HP\anaconda3\New folder\lib\site-packages\sklearn\base.py:450: UserWarning: X does not have valid feature names, but R
andomForestClassifier was fitted with feature names
  warnings.warn(
```