**Machine Learning Classification Assignment :**

**Problem Statement:**

Hospital management wants to predict the Chronic Kidney Disease (CKD) based on several parameters.

**Problem Identification:**

Machine Learning - Supervised – Classification

**Classification Report:**

The report:

precision recall f1-score support

0 0.97 0.98 0.98 51

1 0.96 0.97 0.97 82

accuracy 0.99 133

macro avg 0.98 0.98 0.98 133

weighted avg 0.98 0.98 0.98 133

**Questionnaire:**

1. What is the overall performance of a your Random Forest model ?

Ans. 0.99

1. What is the Accuracy of your Random Forest model ?

Ans. 0.99

1. What is the percentage of correct classification of both (CKD Yes and No) to the total input of test set ?

Ans. 0.99

1. What is the correctly classified percentage of CKD Yes ?

Ans. 0.98

1. What is the percentage of correctly classified as (CKD Yes) and wrongly classified as (CKD Yes) in the dataset ?

Ans. 0.97

1. What is the correctly classified percentage of CKD No ?

Ans. 0.97

1. What is the percentage of correctly classified as (CKD No) and wrongly classified as (CKD No) in the dataset ?

Ans. 0.96

1. What is the F1 score of CKD Yes ?

Ans. 0.98

1. What is the F1 score of CKD No ?

Ans. 0.97

1. What is the precision value of CKD Yes ?

Ans. 0.97

1. What is the precision value of CKD No ?

Ans. 0.96

1. What is the Recall value of CKD Yes ?

Ans. 0.98

1. What is the Recall value of CKD No ?

Ans. 0.97

1. What is the support value of CKD Yes ?

Ans. 51

1. What is the support value of CKD No ?

Ans. 82

1. What is the F1 score of 0 ?

Ans. 0.98

1. What is the F1 score of 1 ?

Ans. 0.98

1. What is the recall value of 0 ?

Ans. 0.98

1. What is the recall value of 1 ?

Ans. 0.97

1. What is the precision value of 0 ?

Ans. 0.97

1. What is the precision value of 1 ?

Ans. 0.96