

# Module 5: Machine Learning Techniques Using R Part-3

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## Assignment

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## 1. Implement the Random-Forest Technique on the Diabetes.csv Dataset.

**Package to be used: randomForest**

**The variable description is:**

For Each Attribute: (all numeric-valued)

1. Number of times pregnant
2. Plasma glucose concentration a 2 hours in an oral glucose tolerance test
3. Diastolic blood pressure (mm Hg)
4. Triceps skin fold thickness (mm)
5. 2-Hour serum insulin (mu U/ml)
6. Body mass index (weight in kg/(height in m)^2)
7. Diabetes pedigree function
8. Age (years)
9. Class variable (0 or 1)

For more information please go through the 'Diabetes Description.pdf'.

## 2. Implement the Naïve-Bayesian Technique on the Diabetes.csv Dataset.

**Package to be used: e1071**

## 3. Create the Confusion Matrix for the Random Forest and Naïve Bayes Implementation.