**Assignments should be done in PYTHON only.**

**Assigment1**

‘HR Employee Attrition Data’ file is provided. Build Neural Network and Random Forest model on same:  
Steps involved should be:

a) Data Import (Target variable is "Attrition" column)  
b) Split the data in Dev & Hold Out sample (70:30)  
c) Perform Exploratory Data Analysis  
d) Identify columns which are of no use. drop those columns  
e) Write Hypothesis and validate the Hypothesis  
f) Build Neural Network Model (Development sample)  
g) Validate NN model on Hold Out. If need be improvise  
h) Build Random Forest Model  
i) Validate RF Model  
j) Compare NN with RF  
k) Combine NN and RF into Ensemble Model  
l) Check whether Ensemble Model Performance outperforms the individual RF & NN model

**Assigment2**

**You will have to build a logistic regression model and interpret the result. Make sure you partition the data set by allocating 70% -for training data and 30% -for validating the results.**

**Validation steps should be clear and also interpret in terms of business consequence as well.**

**Data set: Data set -Churn modelling**