

# Assignment

## Exploratory Data Analysis

### (HR ANALYTICS DATA DESCRIPTION)

Why are our best and most experienced employees leaving prematurely? Fields in the dataset includes:

- Satisfaction Level
- Last evaluation
- Number of projects
- Average monthly hours
- Time spent at the company
- Whether they have had a work accident
- Whether they have had a promotion in the last 5 years
- Departments (column sales)
- Salary
- Whether the employee has left

Using the data set, perform an exploratory data analysis (EDA) (which was already done for EDA2 assignment and now prepare a detailed word document with valuable insights and visualizations and with following details):

1. Develop a model which can predict that whether a given employee will leave or not.
2. Prepare a table which compares with below values:
  1. Model Number
  2. Specificity Score
  3. Sensitivity Score
  4. Percentage of area under curve ROC
  5. Accuracy
  6. Column details which you considered to build a model
  7. Any other columns that you wanted to add for comparison
3. Finally state the model of your choice and describe the reason for your model preference.