

# Introduction to Machine Learning Assignment

---

## Problem Statement:

Consider yourself to be Sam who is a data scientist. He has been approached by a telecom company to do some predictive analytics.

## Tasks to be performed:

1. Sam has to build a model on top of the customer\_churn dataset:
    - a. To find out how does 'tenure' change/vary w.r.t change in 'MonthlyCharges' of the customer
    - b. To find out how does 'tenure' change/vary w.r.t change in 'TotalCharges' of the customer.
    - c. To understand which factor influences the 'tenure' of the customer more -> 'MonthlyCharges' or 'TotalCharges'
  
  2. Sam has to build another model on top of the 'customer\_churn' dataset:
    - a. To find out if the customer would 'Churn' or not w.r.t the 'PaymentMethod' used by the customer
    - b. To find out if the customer would 'Churn' or not w.r.t the 'Contract' type of the customer.
    - c. To find out if the customer would 'Churn' or not w.r.t the 'MonthlyCharges' incurred by the customer
    - d. To understand which factor influences the 'Churn' of the customer more -> 'PaymentMethod', 'Contract' or 'MonthlyCharges'
- 
-