

## **Scenario Based Learning**

### **Assignment**

#### **Problem Statement:**

A company works with number of employees; all the works are dependents on the employees. Even if one of the employees resign the job immediately then assigned work will be not finished at the time, so delivery of the project to the clients will be delayed. Company planned to make solution for this, they want to know which employee may resign next. If they know previously, they can arrange alternative to avoid such problem. As an AI Engineer you must give solution to this.

- A) How will you achieve this in AI?
- B) Find out the 3 - Stage of Problem Identification
- C) Name the project
- D) Create the dummy Dataset.

#### **Solution:**

- A. How will you achieve this in AI?
  - a. Collect the details of the employees and predict which employee may resign next.
- B. 3-Stage Problem Identification
  - 1. Problem Statement - Resigning Prediction
  - 2. Domain Selection – Machine Learning – Stage I
    - a. Firstly, collect data from client, from that data we have to predict the next person to resign. Due to the accurate data given, this will fall under the supervised learning method.
    - b. Machine Learning - Supervised Learning – Stage II
  - 3. Requirement – Resigning Prediction
    - a. Data with input and output (working or not)
  - 4. Regression or Classification
    - a. The system falls under supervised learning, with the categorical data, hence it belongs to classification
    - b. Machine Learning – Supervised Learning – Classification – Stage III
- C. Name of the Project  
Resigning Prediction
- D. Dummy Dataset

Name	Emp ID	Age	Output/Label
Kris	AD12345	35	Resign
Ashok	IO98765	27	Currently Working
Nance	ER67531	29	Currently Working