Problem Identification Assignment

1 How will you achieve this?

To predict employee resignation, we can implement a Machine Learning to solve this. We can also use the existing dataset to predict future attrition rate of employee (churn).

2. 3-Stages of the problem

Stage-1	Domain Selection	Machine Learning
Stage-1	Learning Selection	Supervised Learning
Stage-3	Classification / Regression	Classification

3. Name of the Project

1. Churn Prediction using AI (or)
2. Employee Attrition Prediction using AI

4. Sample Data Set

Ref: https://www.kaggle.com/code/tahuichimiguel/employee-resignation-predictors/report

The data set includes 5 categorical variables that describe each employee's resignation status, promotion status, salary level and department within the company.

- Whether the Employee Experienced a Workplace Accident (0: False , 1: True)
- Whether the Employee Received a Promotion in the Last 5 Years (0: False , 1: True)
- Department{sales}
- Salary Bracket{salary} (low, medium, high)
- Resignation Status{left} (0: Remained with Company , 1: Resigned)

Emp_id	Experienced WP_Accident	Promotion Status	Department	Salary	Resignation Status
#001	0	0	Sales	10000	0
#002	1	0	Purchase	7000	1
#003	0	1	Marketing	15000	1