**Problem Identification Assignment -1**

**Question:**

A company works with number of employees, all the works are depends on the employees. Even if one of the employee 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 this month or next.

If they know previously they can arrange to avoid such problems. As an AI Engineer you must give solution to this.

A) How will you achieve this in AI?

B) Find out the 3-Stages of Problem Identification.

C) Name the project.

D) Create the dummy dataset.

**Solution:**

1) How will you achieve this in AI :

By using Prediction,

i) The reputation company must follow the strict rules for employees resignation. Because they handling number of projects deliver to the respected clients within the time duration.

ii) On the other way In the company doing work at ten step process they need to switch each and every employee for all 10 step process works day by day (daily or weekly).

If the employee each and every process then, It helps to continuously company will run without any employee issues.

iii) Make sure the project total employees are working 10 , here company need to requirement more 2 employees for this kind of situations. If one of the employee resigned immediately .Suddenly we can alternate the employee.

2) Find out the 3-Stages of Problem Identification:

i) In this case, the given data will be numerical in excel sheet so it must be under "Machine Learning".

ii) Inputs and outputs are present Hence it comes under "Supervised learning".

iii) Finally output column was categorical data hence it comes under "Classification".

3) Name the project.

"Employee Working Status".

4) Create the dummy dataset.

Attached in excel sheet.