Hope Artificial Intelligence
Scenario Based Learning

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?

Yes, we can achieve this using AI by predicting the possibility of employee who may resign. Our aim is to predict the employees who may resign or not.

B) Find out the 3 -Stage of Problem Identification

    a **Stage 1 – Domain Selection**

        Machine Learning – Since we will get employee information from database in table format.

    b **Stage 2 – Learning Selection**

        Supervised Learning – Since we will get employee who resigned previously whom falls under the specific data. Like given in the example below.

        Requirement is clear and we will have the input and its output.

    c **Stage 3- Regression or Classification**

        Classification – Since we will classify which employee may resign and which employees may not resign. Kind of categorical value.

C) Name the project

    Employee resignation prediction

D) Create the dummy Dataset.

Salary	Years of experience	Gender	Married	Age	Resigned Classification
10k	2	Male	No	24	Resigned
20k	5	Male	Yes	34	Resigned
30k	5	Female	Yes	30	Not Resigned
40k	5	Male	No	32	Not Resigned
20k	5	Female	Yes	34	Resigned
30k	5	Female	Yes	30	Not Resigned