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?**

ANS:

    This problem can be solved by collecting and training the model on employee data such as salary, years at the company, last promotion, and performance. Also we can use past employee resignation data to train the model so that the model can predict if an employee will resign or not.

B) **Find out the 3 -Stage of Problem Identification**

ANS:

1. Machine Learning
2. Supervised Learning
3. Classification

C) **Name the project**

ANS:

    Employee resignation prediction system

D) **Create the dummy Dataset.**

ANS:

EMPLOYEE ID	SALARY	Years at company	Number of Promotions	Performance Rating	Resignation
001	65000	4	2	2	1
002	85000	7	5	4	0
003	40000	2	1	3	1
004	70000	3	2	2	0
005	55000	1	1	5	0