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? → Based on the identified problem and appropriate learning methodologies, we propose a predictive solution that can assess whether an employee is likely to consider resignation or remain in their current role. This will enable the organization to take proactive measures to retain key talent and ensure project continuity

B) Find out the 3 -Stage of Problem Identification

    Stage 1-Domain selection →Machine learning
- I believe the employee data will be provide to us in an excel

    Stage 2- Learing Type identification → Supervised
- We are clear of the requirement that the prediction has to check the attrition of the company in the near future
- I/p and o/p will be available.. I/P will consist of employee details/ performance rating/increment percentage/salary details etc
- O/P might have been recorded based on the heuristic details

    Stage 3 – Classification
- The o/p will be categorized into categories like "Will stay with the company/ Not stay with the company"

C) Name the project → "Employee Attrition prediction"

D) Create the dummy Dataset.

Emp id	Emp name	Experience	2023 performance rating	2024 Performance rating	2024 increment percentage	Employement Status
09A214A	Ram	3	4	5	15	Stayed
04A214B	Sam	2	5	4	10	Stayed
02A214C	Prem	5	2	3	8	Left
10A214D	Anu	7	1	2	6	Left
21A214E	Sruthi	1	3	5	15	Stayed