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?
B) Find out the 3 -Stage of Problem Identification
C) Name the project
D) Create the dummy Dataset.

Solution-

A) How will you achieve this in AI?

I will use **Natural Language Processing (NLP)**Domain to collect data of the employee who resigned before for example- Getting details like job search history-domain, location etc from third party vendor(feedback). Data auditing- whether the person is active in IJP-Internal job portal. Person in notice period.

If person matches the criteria, he/she will resign the job .

Before employee resign, he or she should intimate the TL, Manger and HR. – To recruit the employee and train and project assignment.

Another employee will be assigned to the project for task to work on past employee role.

B) Find out the 3 -Stage of Problem Identification

1.Domain selection- Natural Language Processing (NLP)

2.Learning Selection-Supervised Learning
3.Supervised (Regression or classification)-Classification

C) Name the project

Project Health Data (PHD)
Employee Risk Data. (ERD)

D) Create the dummy Dataset.

S.no	Employee Name	IJP active status	TL and Manager Feedback	Third party vendor browsing history	Training data	Output
1.	XXXXXX	Active	Task completion on time	Searching for next job and role	Yes, for next job	Resign
2	YYYYYY	Not Active	Task completion on time	Upgrade in skills	Yes, Skill development	Not Resign
3	ZZZZZZ	Active	Task completion on time	Searching for next job and role	Mandatory skill for current role	Resign