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. Based on the previous employees retention history (i.e hiring date, employee age, cadre, performance, resignation date)
We can create a Input and Output pattern dataset. This will provide prediction on which employee is highly likely to leave, this will be the call to action

B. Stage 1 - Machine Learning (Input and output)
   Stage 2 - Supervised learning - we have clear requirement
   Stage 3 - Classification - categorical (Will Resign or Will Not Resign)

C. Employee retention predictor - It will predict if an employee Will Resign or Will Not Resign

D. Hiring Date, Age, Cadre, Performance metrics, resignation date, Output
   1/1/2023, 24, software engineer, 75%, 12/1/2023, resigned
   4/1/2008, 35, Database Admin, 80%, 10/1/2020, resigned
   1/1/2020, 40, Sr. Software engineer, 85%, N/A, not resigned