Problem Identification Assignment

Problem Statement:

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.

Question and Answers:

A) How will you achieve this in AI?

To achieve employee attrition prediction using AI, you will follow these steps:

- Business Understanding
- Data Collection
- Data Preprocessing
- Feature Engineering
- Model Selection
- Model Building
- Evaluation
- Deployment
- Continuous Monitoring
- B) Find out the 3 -Stage of Problem Identification The three stages of Problem Identification are,
 - Stage 1 Machine Learning
 - Stage 2 Supervised
 - Stage 3 Classification
- C) Name the project: Employee Attrition Prediction
- D) Create the dummy Dataset

EmployeeID	Department	Salary	PerformanceScore	SatisfactionScore	WorkingHours	Tenure	Education	Gender	MaritalStatus	Age	Attrition
1	HR	48000	3	3	40	3	2	Female	Married	28	No
2	IT	60000	4	4	45	5	4	Male	Single	32	No
3	Marketing	55000	3	4	42	2	3	Female	Married	26	Yes
4	IT	65000	4	3	44	6	5	Male	Single	30	No
5	Finance	70000	5	4	48	8	5	Female	Married	35	Yes
6	Marketing	58000	3	3	41	4	2	Male	Single	29	No
7	IT	62000	4	5	45	7	4	Female	Married	33	No
8	Finance	72000	5	5	50	9	5	Male	Single	37	No
9	IT	61000	3	2	43	6	3	Female	Married	31	Yes
10	HR	49000	2	2	38	2	1	Male	Single	25	Yes