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.

1. **A) How will you achieve this in AI?**
2. **Answers:**
3. Step-1: Collect date for all Employees details, Joining date, each employees task and department.
   * + 1. Step-2: Segregate employee by year, dept and task.

Step-3: Make cluster as 1year , 2 years ,3years , 5 years, 10 years & Above.

1. **B) Find out the 3 -Stage of Problem Identification?**
   * 1. **Answer:**

Stage 1: Machine Learning / Deep Learning.

Stage 2: UnSupervision prediction.

Stage 3: Classification.

1. **C) Name the project ?**
2. **Answer:**

**EMPLOYEE PRE-RESIGN PREDICTION**

1. **D) Create the dummy Dataset.?**

**Answer:**

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| **SI No** | **EMP Details** | **Date of Joining** | **Year of Experience** | **Department** | **Task Details** | **Work Assign / Output** |
| 1 | EMP Details-1 | 12/Jan/2014 | 10 years | HR Manager | HR |  |
| 2 | EMP Details -2 | 01/mar/2021 | 3years | Sales | Sales -outdoor |  |
| 3 | EMP Details-3 | 17/jun/2022 | 2 years | Sales | Sales - indoor |  |
| 4 | EMP Details -4 | 05/may/2019 | 5 years | R&D | ERP – R&D |  |
| 5 | EMP Details-5 | 23/July/2023 | 1 year | HR Assist | HR Recruit |  |
| 6 | EMP Details -6 | 22/dec/2018 | 6 years | Accounts | Accounts job |  |