give the solution for this-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. How will you achieve this in AI?

**To achieve this in AI, we can build a predictive model that identifies the probability of an employee resigning based on various factors like tenure, performance, job satisfaction, and other relevant parameters.**

B) Find out the 3 -Stage of Problem Identification:

**ML – Semi Supervised (We have to convert supervised-classification)**

C) Name the project

**Employee Resignation Prediction System**

D) Create the dummy Dataset.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Input | | | | Output |
| Employee ID | Tenure (Months) | Performance Score | Job Satisfaction Score | MayResigned (Yes/No) / Output |
| 1 | 24 | 85 | 70 | No |
| 2 | 36 | 90 | 85 | No |
| 3 | 12 | 70 | 60 | Yes |
| 4 | 60 | 95 | 90 | No |
| 5 | 48 | 80 | 75 | Yes |
| 6 | 24 | 90 | 80 | No |
| 7 | 18 | 75 | 65 | Yes |
| 8 | 72 | 98 | 95 | No |
| 9 | 30 | 85 | 80 | No |
| 10 | 42 | 92 | 40 | Yes |