**Identify problem-2**

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?

Build a predictive model that analyses historical employee data, including, job details, performance metrics, and job satisfaction. By applying machine learning algorithms, predict whether an employee will resign in the future (Yes or No).

1. Find out the 3 -Stage of Problem Identification
   1. Stage 1 – Machine Learning
   2. Stage 2 – Supervised Learning
   3. Stage 3 - Classification
2. Name the project
   1. Predict Employee Resignation
3. Create the dummy Dataset.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emp Id | Name | Age | Gender | Department | Experience | Salary | Perform. Rating | Job Satisfaction |
| 1001 | Raju | 36 | Male | IT | 3 | 40000 | 4 | 4 |
| 1002 | Malar | 30 | Female | HR | 2 | 30000 | 3 | 2 |
| 1003 | Vinay | 46 | Male | Sales | 5 | 45000 | 4 | 5 |
| 1004 | Bala | 27 | Male | Finance | 1 | 35000 | 2 | 1 |