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 this month or next. If they know previously, they can arrange alternative to avoid such problem. As an Al Engineer you must give Solution to this.

**A) How will you achieve this in Al?**

Since we have to predict that the employee may resign this month or next, we going for AI solution.

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

* Stage-1(Domain selection): Machine Learning

=>Since the dataset is numerical we are going to ML

* Stage-2(Learning): Supervised Learning

=>Since the dataset having labelled output

* Stage-3: Classification

=>Since the output is categorical such as this month or next month

**C) Name the project**

Employee status prediction

**D) Create the dummy Dataset**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Age | Salary | Experience | Stress level(10) | Company Support(!0) | Status |
| 30 | 70,000 | 7 | 5 | 6 | not |
| 25 | 50,000 | 5 | 8 | 2 | this |
| 28 | 75,000 | 6 | 7 | 4 | next |
| 35 | 1,00,000 | 9 | 5 | 8 | not |

🡪Here the stress level and company support is based on there rating from employees.