A company works with number of employees, all the works are depends on the employees. Even if one of the employees resign the job immediately then assigned work will be 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 AI Engineer you must give solution to this.

1. How will you achieve this in AI
2. Find out the 3-stage of problem identification
3. Name the project
4. Create the dummy dataset.

Answers:

Find a employees resigning time so it a prediction.

1. Workers are always don’t suddenly resign the work. Theirs planned when completed 1 year experience (or) 2 year experience that time workers resign the job. so we alert theirs year of complete.
2. We need workers joining details: required this details are in data base so
   * State-1 we take machine learning.
   * Stage-2 is requirement is very clear so we take supervised learning.
   * Stage-3 it is a categorical value so I take classification.
3. Name the project: workers resigning prediction.
4. dummy dataset:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Age | Joining date | Current date | Alert 11th month | Alert 23rd month | Resigning prediction |
|  |  |  |  | Yes | No | Not resign |
|  |  |  |  | No | Yes | Not resign |
|  |  |  |  | No | No | Resign |