# **Hope Artificial Intelligence**

### **Scenario Based Learning**

A company works with number of employees, all the works depends on the employees. Even if one of the employees resign the job immediately, the assigned work will not be finished on time. So delivery of the project to the clients will be delayed.

Company planned to make a solution to address this issue. They want to know which employee may resign this month or next. If they could know earlier, they can be prepared to make alternate arrangements to avoid any impact to delivery of the project. As an AI Engineer you must give solution.

1. How will you achieve this in AI?
2. Find out the 3 stages of Problem Identification
3. Name the project
4. Create a dummy Dataset
5. How will you achieve this in AI?

Prediction scope – Need to predict which employee may resign this or next month

1. Find out the 3 stages of Problem Identification
2. Time series Analysis 2) Supervised 3) Regression
3. Name the project – Leaver Prediction
4. Create a dummy Dataset

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Employee | Date | Intime | outime | Productive hours | Overtime Hours | Jobs completed before leaving | Incentives | Leave | Age | Joining Date | Education level | Idle time | Salary |
| Prakash | 28/12/2024 | 28/12/2024 09:00 | 28/12/2024 18:00 | 9 | 0 |  |  | No |  |  | Bachelor |  |  |
|  |  |  |  |  |  |  |  |  |  |  | Master |  |  |