## Hope Artificial Intelligence

# Scenario Based Learning

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?

Based on the notice period duration an employee resigned status can be predicted. Say for Example, Company’s notice period duration is 3 months, those employees who are in the state of completing their notice period in 1 month for them an alternate employee can be assigned by the company.

B) Find out the 3 -Stage of Problem Identification

1.Machine Learning – Since the output is in Numbers.

2.Supervised Learning – Requirement is clear.

3.Regression-Output is in Numbers(Notice Period)

C) Name the project

**Employee Resigned Prediction**

D) Create the dummy Dataset.

|  |  |  |  |
| --- | --- | --- | --- |
| **Employee Name** | **Years of Exp** | **Resigned Status** | **Notice Period(Months)** |
| Ramesh | 5 | No | 0 |
| Suresh | 10 | No | 0 |
| Kavitha | 4.5 | Yes | 3 |
| Ravi | 6.8 | No | 0 |
| Priya | 7 | Yes | 2 |
| Murali | 2 | No | 0 |
| Savitha | 8 | No | 0 |
| Vijay | 5.5 | No | 0 |
| Tarun | 9 | Yes | 1 |