**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.

A) How will you achieve this in AI?

B) Find out the 3 -Stage of Problem Identification

C) Name the project

D) Create the dummy Dataset.

Answers:

A)

**To Predict**:

We have predict the employee who is going to resign next.

**Call to action:**

**Yes**- Arrange for Alternative

**No** – Keep going with same employee

B)

**Stage 1:**

Dataset will be in excel format so we can use **Machine learning**. If the expected output is arrived we can switch to **Deep learning**.

**Stage 2:**

It is a **supervised** learning, because

1. Requirement is clear
2. Input and respective output is also given clearly

**Stage 3:**

It comes under **Classification**. Because output is a **Categorical** Value

C)

**Name the project**: Employee backup plan using AI

D)

**DATASET:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Employee name | Experience(yrs) | promotion given in last one year | Hike percentage in last appraisal(%) | Resigned /Not Resigned |
| A Employee | 10 | yes | 12 | Not Resigned |
| B Employee | 8 | no | 12 | Not Resigned |
| C Employee | 12 | no | 10 | Resigned |
| D Employee | 6 | yes | 8 | Not Resigned |
| E Employee | 14 | yes | 8 | Resigned |
| F Employee | 4 | no | 4 | Resigned |